APPENDIX E

MONITORING WELL BORING LOGS

- E-1 URSGWC MONITORING WELL BORING LOGS
- E-2 HARDING ESE MONITORING WELL BORING LOGS
- E-3 2004 BEDROCK MONITORING WELL BORING LOGS

E-1 URSGWC MONITORING WELL BORING LOGS

				BOR	RINC	S LOG	j				HOLE No.	WC1-1S	
COMPANY		C Federal Servic	es	2.		SUBCONTRAC					SHEET	1 2 SHEETS	
PROJECT	***************************************			modial Investig		4. LOCA	TION	rd Connecticut		and the state of t		SHIWWA	
NAME OF D		ord Army Engine	Plant Re	mediai investig	jation	6. MANU	JFACTUR	rd, Connecticut ER'S DESIGNATION					
SIZE AND 1		Butrej DRILLING	2" OD :	split spoons		L	CME 75 Truck Mounted Drill Rig 8. HOLE LOCATION						
AND SAMP	LING EQI	JIPMENT	4 1/4"	ID, 5' augers			o guide	Northwestern ACE ELEVATION	section o	of site, in western	section of	Area No. 1.	
								+ 8.04 feet		ı			
							10. DATE STARTED 11. E 3/22/99					D	
. OVERBUF							15. DEP	TH GROUNDWATER	R ENCOUN		3/22/99	***	
. DEPTH DI	> 12 f						16. DEP	5 feet below g TH TO WATER 24 H		WELL DEVELOPMEN	NT		
. TOTAL DE	0 PTH OF	HOLE					17 OTH	5.6 ft bgs ER WATER LEVEL I	MEASUREN	MENTS (SPECIFY)			
	12 fee	t											
GEOTECH	HNICAL S	AMPLES N/A		DISTURBED		UNDISTUR	RBED	19. TOTAL NUMB	ER OF COF N/A	RE BOXES			
SAMPLES	FOR CH	EMICAL ANALYSIS		VOC	S	EMI-VOCs		METALS	OTHER	(SPECIFY)	21. TOTAL	CORE RECOVERY	
		N/A										N/A	
DISPOSIT	ION OF H	OLE		BACKFILLED	MONI	TORING WELL	ОТ	HER (SPECIFY)	23. NAM	NE OF INSPECTOR Ricardo Colón			
DEPTH	SMPL.	1		<u> </u>		X FIELD SCRE	ENING	GEOTECH S	AMPLE	ANALYTICAL	BLOW		
(FEET)	INT.	DESCRIPTIO		RIALS		RESULT		OR CORE B		SAMPLE No.	COUNTS	REMARKS	
a	b	Asphalt (4")	С			d		e		f	g	h	
0.5	}												
-	}	Loose, moist, b Clayey SAND (S				PID = 0 p 9:35					5	12" Recovery	
_	} _	FILL LAY	ÆR								3		
-	S-1										3		
2	7												
2.5											3		
-	7	Same as S-1				PID = 0 p 9:40					5	15" Recovery	
-		FILL LAY	'ER								4		
-	S-2										4		
4	_												
4.5	1			nana wasan marawit							4		
W.T.		Med. dense, we some gravel (SI		c-f SAND,		PID = 0 p 9:45					6	13" Recovery	
-	₹	oomo graror (o	,								10		
-	S-3										11		
6	1	GLACIAL	DEPOS	ITS							<u> </u>		
6.5	1										12		
-	1	Med. dense, we trace gravel (SF		c-f SAND,		PID = 0 p 9:50					5	21" Recovery	
-	1		,			3.30					11		
-	S-4										10		
8	1												
8.5	 										8		
-	1	Med. dense, we SAND, trace gra				PID = 0 p 10:00					6	20" Recovery	
-	φ,	SAND, trace gra	. voi - 1 00	on Goried		10.00	•				9		
-	-	GLACIAL	. DEPOS	ITS							11		
10	<u> </u>			I DDO IECT				<u> </u>			HOLE N		
odified MRK RSGWC Fed		ces		PROJECT Stratford		ingine Plant	Remedi	ial Investigatio	n		I HOLE N	WC1-1S	
g prepared		7/25/02	2	Project No. I	R98104					1			

		H	TW DRIL	LING LOG	•		HOLE No.	WC1-1S
ROJECT			INSPEC	TOR			SHEET	2
ratford Army	Engine Pla SMPL.	ant Remedial Investigation	Ricardo	Colón FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	OF BLOW	2 SHEETS
DEPTH a	INT.	DESCRIPTION OF MATE	RIALS	RESULTS d	OR CORE BOX No.	SAMPLE No. f	COUNTS	REMARKS h
10.5	S-5						13	
10.5								
_								
12 -	-							
-		END OF BORING						
-								
=								
14								
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-]							
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20								
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22 -				-				
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24 -								
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-								
26 ⁻								
dified MRK F	Form 55 eral Service		PROJECT	y Engine Plant Remedia			HOLE NO). WC1-1S

Stratford Army Engine Plant Remedial Investigation Project No. R98104

			BOR	RING L	_OG					HOLE No.	WC2-1D
COMPANY		C Federal Services	2.	DRILLING SUBO						SHEET	1 10 SHEETS
PROJECT					4. LOCAT	TION				1-:	TOTAL TO SECURITY II
NAME OF I		ord Army Engine Plant	Remedial Investig	ation			d, Connecticut R'S DESIGNATION (OF DRILL			
		Butrej					Truck Mounted	Drill Rig]		
SIZE AND T		<u> </u>	OD split spoons /4 " ID, 5-foot auge	ers			OCATION ft from Northwe	est corne	er of B-58 (Area	#2)	
						9. SURFA	CE ELEVATION				
		-					+ 6.69 feet STARTED		11. DAT	E COMPLETI	≣D
							4/2/99			4/14/99	***************************************
2. OVERBUF	RDEN TH 150.5						H GROUNDWATER 5 ft below groun				
B. DEPTH DI	RILLED II					16. DEPT	H TO WATER 24 HR		WELL DEVELOPME	NT	
4. TOTAL DE	0 EPTH OF	HOLE			-		4.9 ft bgs R WATER LEVEL M	EASUREM	ENTS (SPECIFY)		
	150.5	ft									
B. GEOTECH	HNICAL S	AMPLES N/A	DISTURBED	1	UNDISTURB	BED	19. TOTAL NUMBE	R OF COR I/A	E BOXES		
). SAMPLES	FOR CH	EMICAL ANALYSIS	voc	SEMI-V	OCs		METALS		SPECIFY)	21. TOTAL	CORE RECOVERY
,		S-3, S-6, S-14, S-17, OC and CEC Analysis.						-	TOC, CEC		N/A
DISPOSIT			BACKFILLED	MONITORIN	G WELL	ОТН	ER (SPECIFY)	23. NAM	E OF INSPECTOR	.1	
				X]	Ricardo Colón		
DEPTH	SMPL.	T		FIE	ELD SCREE	NING	GEOTECH SA	MPLE	ANALYTICAL	BLOW	1
(FEET)	INT.	DESCRIPTION OF M	MATERIALS		RESULTS	6	OR CORE BO	X No.	SAMPLE No.	COUNTS	REMARKS
a	b	ASPHALT c			d		e		f	g	h
0.5	7										
-	1	Loose to med. dense SAND, trace gravel,			PID = 0 pp 4/2/99					6	16" Recovery
-	1	SAND, trace graver, s	siit - Pooriy graded		13:20						
-	S-1	FILL LAYER								8	
22] "									12	
	1									46	
2.5		-								16	
_	-	Loose, moist, brown, gravel, trace silt - Poo			PID = 0 pr 13:30	pm				7	6" Recovery
_	7	(SP)								8	
_	S-2										
4 -	1									5	
-	-									4	
4.5	}	Loose, moist, gray, m	n-f SAND some	ļ,	Headspac				WC2-1D/	7	10" Recovery
W.T.	-	gravel and silt - Poorl			= 29.6 pp				S-3 For TOC and	<u></u>	Sample is
-	3	(SP)			13:40				CEC	6	oil stained and
-	S-3								Analysis	4	exhibits a diesel-like odor.
6	-										
6.5										4	<u> </u>
0.5		Loose to med. dense			Headspac					7	12" Recovery
-	1	SAND, some gravel - SAND (SP)	Poorly Sorted		= 5.6 ppr 13:45	m					Sample is oil-
-	S-4									16	stained and exhibits a diesel-like
	l s									14	odor.
. 8	1									—	
8.5	 									10	
-	7			1	Headspac = 1.1 ppr					2	10" Recovery
-	2	FILL LAYER			13:50	"					Sample exhibits a
-	S-5									6	slight petroleum odor.
10	4					ļ				3	
odified MRK			PROJECT			t				HOLE N	o. WC2-1D
RSGWC Fed		CAS		Army Engine							

		HTW DRII	LING LOG			HOLE No.	WC2-1D
OJECT atford Army E	Engine Pl	INSPECTION INSPECTION Ricardo		10000 1000		SHEET	2 10 SHEETS
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
_	S-5					6	
10.5							7
<u>-</u>							
12							
-							
14			w				
_							
15		Very soft, moist, dk. gray, low plasticity,	PID = 0 ppm		WC2-1D/		24" Recovery
		ORGANIC SILT, trace f. SAND - ORGANIC SILT (OL)	14:05		S-6 For TOC and CEC	WOR	- 1 1000VG1 Y
16	9-S	ESTUARINE SILT			Analysis	WOR	
						2	
17							
-							
=							
		Very soft, moist, dk. gray, low plasticity, ORGANIC SILT, some f. SAND -	PID = 0 ppm 14:15				24" Recovery
=	7	ORGANIC SILT (OL)				WOR	
=	S-7						
						2	
=							
=							
24							
24 -							
25		Name and American III	DID 0				OAL Day
=	S-8	Very soft, moist, dk. gray, low plasticity, ORGANIC SILT, trace f. SAND, H2S odor - ORGANIC SILT (OL)	PID = 0 ppm 14:25			WOR	24" Recovery
-7							

		HTW DRIL			HOLE No. WC2-1		
ROJECT		INSPECTO	OR			SHEET	3
atford Army E	ngine PI	ant Remedial Investigation Ricardo C	olón FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	OF BLOW	10 SHEETS
DEPTH	INT.	DESCRIPTION OF MATERIALS	RESULTS	OR CORE BOX No.	SAMPLE No.	COUNTS	REMARKS
а	b	С	d	е	f	9	h
7	8-8					WOR	
	S					3	
27							
28							
-							
7							
4							
30 -							
-		Very soft, moist, dk. gray, low plasticity, ORGANIC SILT, trace f. SAND, H2S	PID = 0 ppm 14:40				24" Recovery
7		odor - ORGANIC SILT (OL)				WOR	
_	6-8						
	0,						
-						2	
32						 	
_							
_							
						1	
34							
7							
35							
" _		Very soft, moist, dk. gray, low plasticity,	PID = 0 ppm				24" Recovery
_		ORGANIC SILT, trace f. SAND, H2S odor - ORGANIC SILT (OL)	14:55			WOR	
36	0						
_	S-10					2	
						 	
37						3	
٦							
=							
38							
_							
Ę							
-							
40		Very soft, moist, dk, gray, low plasticity	PID = 0 ppm			-	24" Recovery
_		Very soft, moist, dk. gray, low plasticity, ORGANIC SILT, trace f. SAND, plant roots - ORGANIC SILT (OL)	4/3/99 10:50			WOR	
			10:50			2	
7	S-11	ESTUARINE SILT				-	
7	"					2	
. 1						2	
42	orm 55	PROJECT			<u> </u>	HOLE N	<u> </u>

	LING LOG			1	
INSPECT	TOR			SHEET	4
lant Remedial Investigation Ricardo C	Colón FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	OF BLOW	10 SHEETS
DESCRIPTION OF MATERIALS	RESULTS	OR CORE BOX No.	SAMPLE No.	COUNTS	REMARKS
С	d	e	f	g	h
					2.05
Very loose, moist, greenish-gray, c-m SAND, some f sand, trace micaceous	PID = 0 ppm 11:05				24" Recovery
sand, trace silt - Poorly graded SAND				WOR	
with silt (SP-SM)					
GLACIAL DEPOSITS				2	
				 	
				4	
1					
	-				
				Ī	
Loops maint grappinh arous a f CAND	DID = 0 nnm		1		24" Recovery
Loose, moist, greenish grav, c-f SAND, some gravel, trace silt, trace micaceous	PID = 0 ppm 11:15			3	LT INCOVERY
sand - Well Graded Sands (SW)				4	1
				9	
				9	1
				9	
1					
Med. dense, moist, greenish gray, m-f	PID = 0 ppm		WC2-1D/	 	Recovery
SAND, some c. sand, trace gravel, trace silt - Poorly graded SAND (SP)	11:30		S-14	8	Information is
silt - Poorly graded SAND (SP)			For TOC and CEC	14	not available
			Analysis	-	
			1	22	
				-	1
				29	
1			1]
PROJECT		L		HOLEN	lo.
si	PROJECT Stratford Arm	PROJECT Stratford Army Engine Plant Remedia	PROJECT Stratford Army Engine Plant Remedial Investigation	PROJECT Stratford Army Engine Plant Remedial Investigation	PROJECT Stratford Army Engine Plant Remedial Investigation CEC Analysis

		H ⁻	TW DRIL	LING LOG			HOLE No.	WC2-1D
OJECT	nine Di	ant Remedial Investigation	INSPECT	OR .			SHEET	5 10 SHEETS
	SMPL. INT. b	DESCRIPTION OF MATER		FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
60.		Med. dense, moist, areen	to brown, m-f	PID = 0 ppm				20" Recovery
	S-15	SAND, trace c. sand, silt- SAND (SP)	- Poorly graded	11:45			9 11 22 26	
2 7								I
4 = = = = = = = = = = = = = = = = = = =		Med. dense, moist, green SAND, trace silt - Well gra	to brown, c-m	PID = 0 ppm 12:05			3	18" Recovery
6	S-16	(SW)	aged Saind	12.05			7 9 15	
8								
) - - - -		Very loose to med. dense to brown, f. SAND, trace s	silt - Poorly	PID = 0 ppm 13:35		WC2-1D/ S-17	3	12" Recovery
	S-17	graded SAND with silt (SF	SSM)	.5.50		For TOC and CEC Analysis	5 10 19	
2 -								
74 diffied MRK For	rm 55		PROJECT				HOLE N	0.

7/25/02

Stratford Army Engine Plant Remedial Investigation
Project No. R98104

		HTW DI	RILLING LO	G		HOLE No.	WC2-1D
OJECT	F'- 5'		NSPECTOR		***************************************	SHEET	6 10 SHEETS
atford Army I	Engine Pla SMPL.	ant Remedial Investigation	Ricardo Colón FIELD SCREENING	G GEOTECH SAMPLE	ANALYTICAL	BLOW	10 SHEETS
DEPTH a	INT. b	DESCRIPTION OF MATERIALS c	RESULTS d	OR CORE BOX No. e	SAMPLE No.	COUNTS	REMARKS h
_							
_	ļ	Med. dense, moist, gray, f SAND, trace	e PID = 0 ppm			-	14" Recovery
_	1	silt - Poorly graded SAND with silt (SP-SM)	13:55			9	
76 [–]	1					17	
	S-18					23	
_	1					23	
_							
_	-			·			
'8							
=							
=							
=	}						
30 -	}						
-		Med. dense, moist, gray, f. SAND, trac silt - Poorly graded SAND with silt	PID = 0 ppm 14:10			10	14" Recovery
=	-	(SP-SM)				13	
_	S-19						
Ξ] "	·				22	
32 -						22	
-							
=	1						
_	1						
_							
4	1						
-							
_	1						
_		Med dense moist gray f SAND trad	ce PID = 0 ppm				14" Recovery
_	1	Med. dense, moist, gray, f. SAND, trac silt - Poorly graded SAND with silt (SP-SM)				5	
6 -	g l	(Gr Givi)				15	
 —	S-20					20	
=	1					22	
_	1						
_	1						
8 -	1						
.y	1						
_	1						
_	1						
_	1						
	1						
00 fied MRK F	Form 55	PROJEC	T			HOLE N	0

7/25/02

Stratford Army Engine Plant Remedial Investigation Project No. R98104

		U I AA DKIL	LING LOG				WC2-1D	
ECT		INSPEC	TOR			SHEET	7 10 SHEETS	
ord Army E	ngine Pla SMPL.		FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	BLOW		_
EPTH	INT. b	DESCRIPTION OF MATERIALS	RESULTS d	OR CORE BOX No.	SAMPLE No. f	COUNTS	REMARKS h	
а		Loose to med. dense, moist, gray, f.	PID = 0			3	16" Recovery	
4		SAND, trace silt - Poorly graded SAND with silt (SP-SM)	14:50			1		
7						5		
E	S-21					8		
4								
, 📑					l.	15		
2								
7								
コ						P		
\dashv								
7								
1								
⇉								
_								
₃		Loose to med. dense, moist, gray, f.	PID = 0 ppm				18" Recovery	
		SAND, trace silt - Poorly graded SAND	15:10			7	_	
-		with silt (SP-SM)				13		
<u> </u>	S-22						-	
	(1)					20	_	
_						24		
7		-				-	 	
-				·				
_						1		
8			1					
-								
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00 _							4011 December 1	
		Loose to med. dense, moist, gray, f. SAND, trace silt - Poorly graded SAND	PID = 0 ppm 15:50			10	18" Recovery	
_	1	with silt (SP-SM)				25	-	
_	S-23						4	
_	Š					28		
_	1					24	1	
)2	-							
_	1							
_	1							
_	1							
-	1							
- -	}							
04	1							
_	1		Í					
- -	1							_
05 _	<u> </u>	Med. dense, moist, gray, f. SAND, trace silt - Poorly graded SAND with silt	PID = 0 ppm			40	24" Recovery	
_	S-24	silt - Poorly graded SAND with silt (SP-SM)	16:10			10	4	
	Ś	(C) -OW)				15		
06 ied MRK I	Form 55	PROJECT		<u> </u>		HOLE		
GWC Fede			my Engine Plant Remed	ial Investigation			WC2-1D	

		HTW	DRIL	LING LOG			HOLE No.	WC2-1D
OJECT	F 5:		INSPECTO	R			SHEET	8
atford Army E	Engine PI SMPL.	ant Remedial Investigation	Ricardo Col	ión FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	OF BLOW	10 SHEETS
DEPTH a	INT.	DESCRIPTION OF MATERIALS		RESULTS d	OR CORE BOX No.	SAMPLE No.	COUNTS g	REMARKS h
							23	
=	S-24						27	
_	<u> </u>							
_	1							
08 _	1						1	
	1	,						
_	1							
_	1							
=	1							
10	1						<u></u>	
_		Loose, moist, gray, silty f. SAND SAND (SM)	- Silty	PID = 0 ppm 4/6/99			3	18" Recovery
-]			8:45			5	
_	S-25							
]						11	
12 -							12	
_								
=	1							
=	1							
	1							
14	}							
	1							
	1							
	<u> </u>	Loose, moist, green to brown, si	ilty f.	PID = 0 ppm				16" Recovery
		SAND - Silty SAND (SM)		9:00			4	
16	S-26						6	
_	γ̈́						10	
_	1						14	
						1	 	L
	 			į į			1	
-								
18 -								
18								
18 –								
18 -								
18								
-						W(00 4D)(007		44 Door
-		Loose to med. dense, moist, gre brown, f. SAND, some silt - Silty	een to sAND	PID = 0 ppm 9:25		WC2-1D/S27 For TOC &	4	14" Recovery
- - - - -		Loose to med. dense, moist, gre brown, f. SAND, some silt - Silty (SM)	een to SAND	PID = 0 ppm 9:25		WC2-1D/S27 For TOC & CEC Analysis	4 9	14" Recovery
-	S-27	brown, f. SAND, some silt - Silty	een to SAND	PID = 0 ppm 9:25		For TOC & CEC	9	14" Recovery
18.		brown, f. SAND, some silt - Silty	een to SAND	PID = 0 ppm 9:25		For TOC & CEC	4	14" Recovery

Modified MRK Form 55
Woodward-Clyde Federal Services
Log prepared 7/25/02

Stratford Army Engine Plant Remedial Investigation
Project No. R98104

			LING LOG			HOLE No.	WC2-1D
ROJECT	Engis - D'	INSPEC	TOR			SHEET	9 10 SHEETS
DEPTH	SMPL. INT.	ant Remedial Investigation Ricardo (DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS
124							
-							
125		Loose to med. dense, moist, green to brown, f. SAND, some silt - Silty SAND (SM)	PID = 0 ppm 9:40			6	12" Recovery
126 -	S-28					13	
127						25	
128							
130			DUT -				
	S-29	Loose to med. dense, moist, greenish- gray, f. SAND, some silt - Silty SAND (SM)	PID = 0 ppm 10:45			6	18" Recovery
132 -	-S					12 15	
134 <u> </u>							
135	S-30	Loose to med. dense, moist, greenish- gray, m-f SAND, some silt - Poorly Graded Sand, Silty SAND (SP-SM)	PID = 0 ppm 11:00			3 5	18" Recovery
137	0,					7	
138							
dified MRK F oodward-Clyd g prepared		PROJECT Services Stratford Arm: 7/25/02 Project No. R9810	y Engine Plant Remedia	Il Investigation		HOLE N	o. WC2-1D

		HTW DRIL		HOLE No. WC2-1D			
ROJECT		INSPECTO	DR .			SHEET	10
ratford Army E	SMPL.	ant Remedial Investigation Ricardo Co	FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	OF BLOW	10 SHEETS
DEPTH a	INT.	DESCRIPTION OF MATERIALS	RESULTS d	OR CORE BOX No.	SAMPLE No. f	COUNTS	REMARKS h
140							
		Dense, moist, greenish-brown, m-f SAND, trace f. gravel, silt - Poorly graded SAND with silt (SP-SM)	PID = 0 ppm 11:50		WC2-1D/ S-31 Sampled for	25	24" Recovery
	S-31				TOC and CEC Analysis	42	
-	0,				, maryoro	25	
142						22	
144 -							
145		Dense, moist, greenish-brown, c-f SAND, trace f. gravel - Poorly graded SAND (SP)	PID = 0 ppm 13:30			13	24" Recovery
146 –	S-32	GLACIAL DEPOSITS				19	
-	\dot{\dot{\dot{\dot{\dot{\dot{\dot{					17	
147						29	
148							
-							
150	ŭ	Dense, gravish brown, m-f SAND, trace	PID = 0 ppm			105.77	
-	8-33	f. gravel - Poorly graded SAND (SP) END OF BORING	14:35			100/5"	Auger refusal at 150.5 ft
=							
152 -							
- - - -							
154		PROJECT				HOLE N	

Woodward-Clyde Federal Services 7/25/02 Log prepared

Stratford Army Engine Plant Remedial Investigation Project No. R98104

	BOR	ING	LOG	ì				HOLE No.	WC2-1I		
. COMPANY NAME URSGWC Federal Service	es:	2.		UBCONTRACT					SHEET OF	1 1 SHEET	7
. PROJECT		andial Invention		4. LOCA	TION	d Connections	,		L		1
Stratford Army Engine F . NAME OF DRILLER	-iant Kem	ieulai investiga	uOI)	6. MANU	JFACTURE	d, Connecticut					1
Steve Butrej . SIZE AND TYPES OF DRILLING	2" OD s	split spoon	·····			Truck Mounted OCATION	Drill Rig	1			-
AND SAMPLING EQUIPMENT	4 1/4 "	D, 5-foot auger	rs			Approximately 5	ft from	NW corner of B-	58 (Area N	lo. 2)	_
						+ 6.83 feet				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
					10. DATE	STARTED 4/8/99		11. DATE	COMPLETE 4/8/99	D	
2. OVERBURDEN THICKNESS > 55 feet					15. DEPT	H GROUNDWATER E 5 feet	ENCOUNT	ERED			1
B. DEPTH DRILLED INTO ROCK					16. DEPT	H TO WATER AND E	LAPSED T	TIME AFTER DRILLING	COMPLETE	D	1
0 4. TOTAL DEPTH OF HOLE					17. OTHE	5.2 ft bgs R WATER LEVEL ME	ASUREM	ENTS (SPECIFY)			-
55 feet 3. GEOTECHNICAL SAMPLES	1	DISTURBED		UNDISTUR	BED	19. TOTAL NUMBER	R OF COR	E BOXES			4
N/A			N	I/A		·		_			
D. SAMPLES FOR CHEMICAL ANALYSIS	+	VOC	SEM	1I-VOCs		METALS	OTHER (SPECIFY)	21. TOTAL	CORE RECOVERY	
N/A 2. DISPOSITION OF HOLE		BACKFILLED	MONITO	RING WELL	OTH	IER (SPECIFY)	23. NAM	E OF INSPECTOR	<u> </u>	N/A	4
comon or riota	ľ	Heliand	 	X	1		1	Ricardo Colón			
DEPTH SMPL.			— —	FIELD SCREI	L ENING	GEOTECH SAI		ANALYTICAL	BLOW		\dashv
(FEET) INT. DESCRIPTION	OF MATER	RIALS		RESULT d	rs .	OR CORE BOX	X No.	SAMPLE No.	COUNTS	REMARKS h	
52 = 54 = 55 = END OF BORIN									Driller augered directly down to 55 ft(from q.s.). The split-spoons were not used while advancing the borehole. For a characterization of the soil, please refer to WC2-ID.		
60 7 Indicate the state of the	I	PROJECT						1	HOLE N		+
Modified MRK Form 55 PROJECT JRSGWC Federal Services Stratford Army Engine Plai					Remedia	al Investigation			l	WC2-1I	1

					BOR	IN	G LOG	ì				HOLE No.	WC2-1S
1. COMPAN			C Federal Services	2	2.		G SUBCONTRAC		- Little Harris			SHEET	1 2 SHEETS
3. PROJEC	Т			***************************************			4. LOCA					1	_ 01.00010
5. NAME O			ord Army Engine P	lant Re	medial Investig	ation	C MANU		rd, Connecticut ER'S DESIGNATION	OE BBILL		····	
5. NAME U			Butrej				o. MAN		5 Truck Mounted		а		
7. SIZE AN				2 " OD	split spoon				LOCATION		9		
AND SAM	MPLI	ING EQI	JIPMENT	4 1/4",	5-foot augers			0.0000	In Area No. 2, 1 ACE ELEVATION	Near S-E	corner of buildi	ng B-58.	·
								19. SURF	+ 6.27 feet				
								10. DATI	E STARTED		11. DAT	COMPLET	ED
									4/9/99			4/14/99	
12. OVERB		> 12 fe						15. DEP	TH GROUNDWATER 4 feet bas	ENCOUNT	ERED		
13. DEPTH							***************************************	16. DEP	TH TO WATER 24 HR	RS. AFTER	WELL DEVELOPME	NT	
		0							4.4ft bgs		51.75 (0050)50		
14. TOTAL		тн он 12 fee						17. OTH	ER WATER LEVEL M	EASUREN	IENTS (SPECIFY)		
18. GEOTE					DISTURBED		UNDISTUR	BED	19. TOTAL NUMBE	R OF COR	E BOXES		
			N/A		X			T		I/A		T	
20. SAMPL	ES F	OR CH	EMICAL ANALYSIS		voc	 	SEMI-VOCs	 	METALS	OTHER (SPECIFY)	21. FOTAL	CORE RECOVERY
			N/A										N/A
22. DISPOS	SITIC	N OF H	OLE		BACKFILLED	MON	ITORING WELL	ОТ	HER (SPECIFY)	23. NAM	E OF INSPECTOR		
						1	Χ				Ricardo Colón		
DEPTH	Т	SMPL.			I		FIELD SCRE	ENING	GEOTECH SA	MPLE	ANALYTICAL	BLOW	
(FEET)		INT.	DESCRIPTION		RIALS		RESUL1	rs	OR CORE BO	X No.	SAMPLE No.	COUNTS	REMARKS
а	\dashv	b		С			d		е		f	g	h
0.5	7												
0.0	\exists		Loose, moist, bro				PID = 0 p					5	Recovery 7"
	7		sand and f. grave SAND (SP)				9:25						
	Ⅎ	-										5	
	\dashv	S-1	FILL LAYE	R								93	
2	٦												Penetration 19"
	\dashv											100 / 1"	Hit pipe in RUN 1 End of boring
2.5	7		looge majet bro	un f C	AND some silt		Hoodana					4	RUN 2
	\exists		Loose, moist, bro trace micaceous	sand, e	xhibits a		Headspa = 1.7 pp	om				4	INOIN Z
	7		petroleum-like od	lor - Silt	y-SANDS (SM)		10:15					3	
	\exists	S-2											1
4	\dashv		w.T.									4	
	寸	Y							1			5]
4.5	4												ļ
	7		Loose, wet, black some f. gravel, -				PID = 147 10:25					4	12" Recovery
	1		(SP)	. 55117	C. GGOG GAIND		10.25	•				_	Sample is oil-
	\dashv	S-3										6	stained and exhibits a
6	7	(0										7	petroleum-like odor.
6	亅											 	See field
6.5	4											7	results for S-3.
			Loose, wet, brow				PID = 26.9					3	13" Recovery
	\forall		gravel and micac Graded SANDS (ind, Poorly		10:35						Sample is oil-
	7	S-4	,									5	stained and a petroleum-like
	\exists	Ġ										6	odor is evident.
8	\dashv												See field screening
	1											9	results for S-4.
8.5	+		Loose, wet, brow	n. m-f S	AND, trace f		PID = 0 r	mag				1	8" Recovery
	7		gravel, trace silt -				10:50	•				ļ	
	+	S-5	(SP)									4	A slight petroleum- like odor is
	7	0)	FILL LAYE	R									evident.
10	\exists											4	
Modified MR					PROJECT	Λ	Tuels - Pl	D	tal lave -41 - 21			HOLE N	
URSGWC For Log prepared		aı Servi	res 7/25/02		Stratford Project No. F	-	Engine Plant	kemedi	ial Investigation	l			WC2-1S
J , par 60			1,20102		1							•	

		H1	'W DRILI	LING LOG			HOLE No.	WC2-1S
ROJECT			INSPECTO	R			SHEET	2
ratford Army E	Engine Plan	nt Remedial Investigation	Ricardo Co	lón FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	OF BLOW	2 SHEETS
DEPTH a	INT.	DESCRIPTION OF MATERI	ALS	RESULTS d	OR CORE BOX No.	SAMPLE No.	COUNTS	REMARKS h
10.5	S-5						8	
<u>-</u>								
40								
<u>12 </u>	E	END OF BORING						
_ 								
- - -								
15								
2 -								
16								
-								
17 _								
18								
<u></u>								
-								
-								
20 -								
1								
22 -								
-								
24								
24								
25								
						1		

7/25/02

Stratford Army Engine Plant Remedial Investigation Project No. R98104

COMPANY NAME URSGWC Federal Services PROJECT					ING	LOG	ì				HOLE No.	WC2-2D Run	
	MPANY NAME URSGWC Federal Services OJECT Stratford Army Engine Plant Remedial Investigat ME OF DRILLER Steve Butrej						SUBCONTRACT			describeration		SHEET	1 5 SHEETS
	r						4. LOCA					15,	- 5112215
			rd Army Engine Pla	ant Rer	medial Investig	ation	C MANU		d, Connecticut	Or DOUL			***************************************
NAME OF			Butrei				b. MANL		5 Truck Mounted		q		
	TYI	PES OF	DRILLING		split spoons				LOCATION				
AND SAM	1PLII	NG EQL	IPMENT	4 1/4"	D, 5' augers			9 SURF	Northeastern se	ection A	rea No. 2, east o	f building	B-19.
			ŀ						+ 7.78 feet				
			<u> </u>					10. DATE	STARTED		11. DAT	E COMPLETE	ED
OVERBU	JRD	EN THI	CKNESS					15. DEP	3/30/99 TH GROUNDWATER		TERED	3/31/99	
		62 fee							6 feet				
. DEPTH		LED IN	TO ROCK					16. DEP	TH TO WATER 24 HF N/A	RS AFTER	WELL DEVELOPMEN	١T	
. TOTAL [IOLE					17. OTH	ER WATER LEVEL M	EASUREN	MENTS (SPECIFY)		
05075		32 fee			DIOTI IDDEO		UNDIGTUD		Lio TOTAL NUMBE	D 05 005	T BOYES		
. GEOTE	CHN.	ICAL SA	N/A		DISTURBED		UNDISTUR	BED	19. TOTAL NUMBE	.R OF COF	KE BOXE2		
			MICAL ANALYSIS		voc	SE	MI-VOCs		METALS			21. TOTAL	CORE RECOVERY
		,	3, S-11 and S-14 for T	гос							TOC, CEC		N/A
d CEC A			OLE		BACKFILLED	MONIT	ORING WELL	ОТ	HER (SPECIFY)	23. NAM	E OF INSPECTOR		IV/A
					Х					1	Ricardo Colón		
DEPTH	Т	SMPL.			L	L	FIELD SCRE	ENING	GEOTECH SA	MPLE	ANALYTICAL	BLOW	
(FEET)		INT.	DESCRIPTION C	F MATE	RIALS		RESULT		OR CORE BO		SAMPLE No.	COUNTS	REMARKS
а	+	b	c Aephalt (3")				d		е		f	9	h
	\exists		Asphalt (3")										
0.5	-		Loose to med. der	nse. mo	oist, brown, f.		PID = 0 r	mag			1	13	16" Recovery
	7		Loose to med. dense, moist, brown, f. SAND, trace silt - Poorly graded SAND with silt (SP-SM)				14:05	5					
	1	-		ND, trace silt - Poorly graded SAND								12	
	\dashv	Ş	FILL LAYER	th silt (SP-SM)								7	
2	1			ith silt (SP-SM)							}		
	1		FILL LAYER									7	
2.5	+	Increasing silt content				PID = 0 p	opm			WC2-2D/S-2	4	14" Recovery	
	7	Increasing silt content				14:10)			Sampled for TOC and			
	1	7									CEC	3	
	\dashv	Ś									Analysis	2	
4	\exists												
	1											4	
4.5	Med. dense, brown, m-f SAND, trace f. gravel to c. sand - Poorly graded			PID = 0 p				WC2-2D/S-3	4	18" Recovery			
	7						14:35	i			Sampled for TOC and	<u> </u>	
	1	က္က	C. 114D (OI)								CEC	10	
	\exists	S-3									Analysis	14	
6	7	V	W.T.										
0.5	1											13	
6.5	1		Loose to med. der			c	PID = 0 p					5	24" Recovery
	7		SAND, trace f. gra SAND (SP)				14:40)				ļ	
	\exists	4	0, 440 (0) /									9	
	\exists	S-4										8	
8	7												
0.5	1											10	
8.5	1		Loose, wet, greeni				PID = 0 r					3	24" Recovery
	7		trace f. gravel, silt SAND (SP)				15:00)				-	
	1	S-5		_								6	
	\exists		FILL LAYER	۲								11	
10	1	-m - 5 °			PROJECT				1		.1	HOLE N	
dified MRI SGWC Fe			es			Armv Er	ngine Plant	Remedi	al Investigation			I HOLE N	o. WC2-2D Run 1
			7/25/02		Project No. F		-	-	•			1	

		HTW DRIL	LING LOG			HOLE No.	WC2-2D Run 1
ROJECT	F1 =	INSPECT	TOR	100 100 100 100 100 100 100 100 100 100		SHEET	2
tratford Army E	SMPL.	lant Remedial Investigation Ricardo 0	Colon FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	BLOW	5 SHEETS
DEPTH a	INT.	DESCRIPTION OF MATERIALS	RESULTS d	OR CORE BOX No.	SAMPLE No. f	COUNTS	REMARKS h
	S-5					11	
10.5	s s						
_	1						
_	1						
_	1						
12							
_	1						
			ŀ		:		
_	1						
_	l						
14 -	1						
_	}						
_]						
15	 	No Sample Retrieved					No Recovery
	1	- Sample Reality and				5	
40						5	
.16	9-S						
_	1					5	
17						4	
	1						
18	1						
_							
-							
7							
=							
20							
.20	ļ ——	Dense, moist, It. brown, m-f SAND, trace f.	PID - 0 ppm			†	24" Recovery
		gravel - Poorly graded SAND (SP)	15:20			6	
-	S-7	GLACIAL DEPOSITS				25	
7	ιά					38	
						57	
22 -					1		
22 -							
22 -							
22 -							
22 -							
24 -		Med. dense to dense, moist, yellowishorange, f. SAND, trace silt - Poorly	PID - 0 ppm 15:30		WC2-2D/S-8 Sampled for	11	24" Recovery
24 -	S-8	Med. dense to dense, moist, vellowish- orange, f. SAND, trace silt - Poortv graded SAND, with silt (SP-SM)	PID - 0 ppm 15:30		WC2-2D/S-8 Sampled for TOC and CEC	11 23	24" Recovery

Modified MRK Form 55
URSGWC Federal Services
Log prepared

	HT\	W DRIL	LING LOG		***************************************	HOLE No.	WC2-2D Run 1
	***************************************	INSPECT	OR			SHEET	3 5 SHEETS
SMPL.			FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	BLOW	
INT. b		S	RESULTS d	OR CORE BOX No. e	SAMPLE No.	1	REMARKS h
ς. 8-λ						 	
						40	
							:
	Loose to med. dense. wet. ve	ellowish-	PID = 0 ppm				24" Recovery
	orange, f. SAND, trace silt - F	Poorly	15:40			4	,
						6	
S-1						14	
						20	
	Loose to med dense moist	vellowish-	PID - 0 ppm				24" Recovery
	orange, f. SAND, trace grave	l, silt -	15:55			3	
	1 Oomy graded SAND (OF SW	1)				5	
S-1							
						11	
	Loose to mad dense moist	vellowish_	PID - 0 ppm				24" Recovery
	orange, f. SAND, trace grave	I, silt -	16:10			4	127 NGCOVELY
	Poorly graded SAND with silt	(OC-OIVI)				9	
\sim			1		1		
S-12							
S-12						13 26	
	S-11 S-10 S-10 S-10 S-10 S-10 S-10 S-10	Loose to med. dense, wet, vorange, f. SAND, trace silt - f. graded SAND (SP-SM) Loose to med. dense, moist, orange, f. SAND, trace grave Poorly graded SAND (SP-SM) Loose to med. dense, moist, orange, f. SAND, trace grave poorly graded SAND (SP-SM)	Loose to med. dense, wet, vellowishorange, f. SAND, trace gravel, silt - Poorly graded SAND (SP-SM) Loose to med. dense, moist, vellowishorange, f. SAND, trace gravel, silt - Poorly graded SAND (SP-SM)	Loose to med. dense, moist, vellowish- prorringe, f. SAND, trace gravel, silt - porry graded SAND (SP-SM) Loose to med. dense, moist, vellowish- prorry graded SAND (SP-SM) Loose to med. dense, moist, vellowish- prorry graded SAND (SP-SM) Loose to med. dense, moist, vellowish- prorry graded SAND (SP-SM) Loose to med. dense, moist, vellowish- prorry graded SAND (SP-SM) Loose to med. dense, moist, vellowish- prorry graded SAND (SP-SM) Loose to med. dense, moist, vellowish- prorry graded SAND (SP-SM) Loose to med. dense, moist, vellowish- prorry graded SAND (SP-SM)	Cose to med. dense, moist, vellowish- orange, f. SAND, trace gravel, silt - Cose to med. dense, moist, vellowish- orange, f. SAND, trace gravel, silt - Cose to med. dense, moist, vellowish- orange, f. SAND, trace gravel, silt - Cose to med. dense, moist, vellowish- orange, f. SAND, trace gravel, silt - Cose to med. dense, moist, vellowish- orange, f. SAND, trace gravel, silt - Cose to med. dense, moist, vellowish- orange, f. SAND, trace gravel, silt - Cose to med. dense, moist, vellowish- orange, f. SAND, trace gravel, silt - Cose to med. dense, moist, vellowish- orange, f. SAND, trace gravel, silt - Cose to med. dense, moist, vellowish- orange, f. SAND, trace gravel, silt - Cose to med. dense, moist, vellowish- orange, f. SAND, trace gravel, silt - Cose to med. dense, moist, vellowish- orange, f. SAND, trace gravel, silt - Cose to med. dense, moist, vellowish- orange, f. SAND, trace gravel, silt - Cose to med. dense, moist, vellowish- orange, f. SAND, trace gravel, silt - Cose to med. dense, moist, vellowish- orange, f. SAND, trace gravel, silt - Cose to med. dense, moist, vellowish- orange, f. SAND, trace gravel, silt - Cose to med. dense, moist, vellowish- orange, f. SAND, trace gravel, silt - Cose to med. dense, moist, vellowish- orange, f. SAND, trace gravel, silt -	INSPECTOR Remodul Investigation Read Color SUPI. DESCRIPTION OF MATERIALS PID = 0 ppm orange, f. SAND, trace siti Poorty graded SAND (SP-SM) Loose to med. dense, moist, vellowish- proorly graded SAND (SP-SM) Loose to med. dense, moist, vellowish- proorty graded SAND (SP-SM) Loose to med. dense, moist, vellowish- proorty graded SAND (SP-SM) Loose to med. dense, moist, vellowish- proorty graded SAND (SP-SM) Loose to med. dense, moist, vellowish- proorty graded SAND (SP-SM) Loose to med. dense, moist, vellowish- proorty graded SAND (SP-SM) Loose to med. dense, moist, vellowish- proorty graded SAND (SP-SM) PID - 0 ppm 15:55	Application

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Stratford Army Engine Plant Remedial Investigation Project No. R98104

WC2-2D Run 1

		H ⁻	TW DRIL	LING LOG			HOLE No.	WC2-2D Run 1
OJECT	Tagina Di	lant Remedial Investigation	INSPECT Ricardo C	OR			SHEET	4 5 SHEETS
	SMPL.			FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	BLOW	
DEPTH a	INT. b	DESCRIPTION OF MATER	RIALS	RESULTS d	OR CORE BOX No.	SAMPLE No.	COUNTS	REMARKS h
_						ļ		
-								
_								
44								
_								
45 <u> </u>								
-		Loose to med. dense, gre SAND, trace gravel, silt - SANDS (SP)	enish-gray, m-f Poorly Graded	PID - 0 ppm 3/31/99 9:20			6	20" Recovery
6 -	S-13	SANDS (SF)		9.20			13	
_	ν̈́						20	
17 -							20	
_				<u> </u>				
- -8								
_								
_								
_								
50 –						į		
<u>-</u>		Loose to med. dense, mo gray, m-f SAND, trace silt	- Poorly	PID - 0 ppm 9:30		WC2-2D/ S-14	4	20" Recovery
_	4	graded SAND with silt (SF	P-SM)			Sampled for TOC and CEC	7	
_	S-14					Analysis	11	
, -							14	
i2 –								
=								
., =				ŀ				
4								
55		Loose to med. dense, mo	ist, greenish- Poorly	PID - 0 ppm 9:50			4	20" Recovery S-14
,]	10	graded SAND (SP)					7	
6 –	S-15	GLACIAL DEPOSI	18				11	
							14	
57								
=								
68 Tied MRK F	orm 55		PROJECT	1			HOLE N	0

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Stratford Army Engine Plant Remedial Investigation
Project No. R98104

WC2-2D Run 1

		Н	TW DRIL	LING LOG	İ		HOLE No.	WC2-2D Run 1
ROJECT			INSPECT	OR			SHEET	5
	ngine Plant Rer SMPL.	medial Investigation	Ricardo (Colón FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	OF BLOW	5 SHEETS
DEPTH a	INT.	DESCRIPTION OF MATE	ERIALS	RESULTS d	OR CORE BOX No.	SAMPLE No.	COUNTS	REMARKS h
_								
=								
]								
60								Auger hit hard (presumably rock) layer at 59 ft. Tried
	SEE	REMARKS	→					unsuccesfully to drive spoon.
=								Then tried to auger through it and hit
=								refusal at 62 ft
62 -								No sample taken
	END	OF BORING						
=								
]								
64								
=								
65								
=								
66								
67								
]								
68								
=								
=								
70								
]								
=								
=								
72								
=								
]								
=								
74 T	55 press 55		PROJECT	L		<u> </u>	HOLE N	lo

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Stratford Army Engine Plant Remedial Investigation
Project No. R98104

WC2-2D Run 1

				BOI	RIN	G L	OG	j				HOLE No.	WC2-2D Run 2	2
1. COMPANY		C Fodoral Consists			2. DRILLIN					**************************************		SHEET	1 1 SHEET	
3. PROJECT		C Federal Services			Conn	ecticut	4. LOCA					Tor	ISHEEI	
		ord Army Engine Pl	lant Re	medial Invest	igation				rd, Connecticut					
5. NAME OF		5					6. MANI		ER'S DESIGNATION					
7. SIZE AND		Butrej	2" OD	splitspoons					5 Truck Mounte	a Drill Ki	9			
AND SAME				ID, 5' augers				1		ection of	f Area No. 2, eas	st of buildi	ng B-19.	
			Core b					9. SURF	ACE ELEVATION					
								40. DAT	+ 7.78 feet E STARTED		T44 . DAT	E COMPLET		
		}						10. DATI	4/1/99	à	In. DAT	4/2/99	ED	
12. OVERBU	RDEN TH	ICKNESS						15. DEP	TH GROUNDWATER		TERED			
	62 fee								6 feet below gr					
13. DEPTH D		NTO ROCK						16. DEP	TH TO WATER 24 HI	RS. AFTER	WELL DEVELOPME	NT		
14. TOTAL D	5 EPTH OF	HOLE						17. OTH	5.6 ft bgs ER WATER LEVEL N	MEASUREN	MENTS (SPECIFY)			_
	67 fee										,			
18. GEOTEC	HNICAL S	AMPLES		DISTURBED		U	NDISTUR	BED	19. TOTAL NUMBE		E BOXES			
20 CAMPLE	C EOD CH	EMICAL ANALYSIS		voc		SEMI-VO	Co	Т	METALS	1	SPECIFY)	21 TOTAL	L CORE RECOVERY	
ZU. SAWIFLES	3 FUR CH	EIVIICAL AIVALTSIS		VOC		SEIVII-VO			WETALS	OTTLER	SFECIFT)	- 1017	59 inches	
22. DISPOSIT	TION OF H	IOLE		BACKFILLED	MON	NITORING	WELL	ОТ	HER (SPECIFY)	23. NAM	E OF INSPECTOR			
						Χ					Ricardo Colón			
DEPTH	SMPL.	T		<u> </u>		FIE	LD SCRE	ENING	GEOTECH SA	AMPLE	ANALYTICAL	BLOW	T	
(FEET)	INT.	DESCRIPTION O		RIALS			RESULT	s	OR CORE BO	OX No.	SAMPLE No.	COUNTS	i	
а	b	c	:			<u> </u>	d		e		f	g	h Driller augered down	
	_					1							directly to 60'(from	
	-								ļ				g.s.). No spoons were driven at	
	j												earlier intervals.	
	4	İ											See boring log	
	<u> </u>	GLACIAL DEPOS	ITS										WC2-2D Run 1 for	
60	7	}											description.	
00		Medium dense, m				 			<u> </u>				24" Recovery	
	4	SAND - Poorly gra	aded S	AND (SP)								22	S-15	
	d]						26		
	S-15	Dense, olive-gray, Poorly graded SAI	grave	ly, c-f SAND -									4	
		Poorly graded SAI	ND (SF	- 1								34		
	7	Olive-gray rubble				-						51	-	
62												J 31		
	4	Core Run #2			——М				Core WC2-2DA			6	Spoon Hit Refusal at 62'	
	J	Schist, gray, medi	ium,						Penetration = 60"			min	at 52	
	-	grained, thickly- bedded, strong							Recovery = 59"					
		(top 1.5' feet)				İ								
	4	Legend				ŀ			Strength = Strong			6 min		
	_	N-naturally occuring frac							Hardness = Mod. H	lard		1		
64	4	M-mechanical break/frac (occurred during core							Sum of Lengths				+	
	1	1	,						Intact = 53.2 inche	s		5		
	-	Note Naturally occurring fract	ure						RQD = Sum of L in	tact/		min		
	7	was caused by faulting.				1			Pen.				_	
	4								= 53.2/60 = 0.	89		5		
	7				N				Recovery % = Recov./Pen x 1	0.09/		min		
66 -	+				—_м				= 59/60x1					
	7								= 98.3%			-		
	\dashv											5 min		
												1	D	
	-	END OF BORING		L		 	N.T.P.		<u> </u>		 		Penetration to 67'	
	-					l								
68	1			y 		<u> </u>			1		<u> </u>	1		
Modified MRK URSGWC Fed		rae		PROJEC		Engin-	Diant	Domod!	al Investigation			HOLE N	No. WC2-2D Run 2	
URSGWC Fed Log prepared	retai 26tVi	res 7/25/02		Project No		∟ngine	rian(Kemedi	al Investigation	•		1	WCZ-ZD KUII Z	
3 F Po. 50		1,20,02		1								1		

					BOR	ING	LOG	i				HOLE No.	WC2-2I
1. COMPAN			C Federal Services		2.		SUBCONTRACT					SHEET	1 4 SHEETS
3. PROJECT				ant Day	madial Invastia		4. LOCA	TION	d Connecticut			I	
5. NAME OF			ord Army Engine Pla	ant Kei	mediai investiga	auon		FACTURE	d, Connecticut R'S DESIGNATION C				
7. SIZE AND			Butrej DRILLING 2	2" OD :	splitspoons				Truck Mounted LOCATION	Drill Rig	9		
AND SAM					D, 5' augers				B-16, between B	3-16 and	l Causeway (in A	rea No. 2).
			L						+ 7.47 feet				
			-					10. DATE	STARTED 3/26/99		11. DATE	3/29/99	ED
12. OVERBU								15. DEPT	H GROUNDWATER	ENCOUNT	ERED		
13. DEPTH D		> 55 fe						16. DEPT	5.5 feet H TO WATER 24 HR:	S. AFTER	WELL DEVELOPMEN	NT	
14. TOTAL D	EPT		HOLE					17. OTHE	4.7 ft bgs R WATER LEVEL ME	EASUREM	ENTS (SPECIFY)		
18. GEOTEC		55 fee			DISTURBED		UNDISTUR	BED	19. TOTAL NUMBER	OF COR	E BOXES		=11
		2111	N/A		X	_		BED	N	/A			
20. SAMPLE	S F	OR CHE	EMICAL ANALYSIS		voc	SE	EMI-VOCs		METALS	OTHER (SPECIFY)	21. TOTAL	CORE RECOVERY
22. DISPOSI	TIO	N OE U	N/A		BACKFILLED	MONUT	ORING WELL	0.11	IER (SPECIFY)	23 NAM	E OF INSPECTOR		N/A
22. DISPUSI	1101	NOFF	OLE		BACKFILLED	WONT	X	011	IER (SPECIFT)	23. IVAIVI	Ricardo Colón		
DEPTH	7	SMPL.		-	<u> </u>	<u> </u>	FIELD SCREE	ENING	GEOTECH SAM	MPLE	ANALYTICAL	BLOW	
(FEET) a		INT. b	DESCRIPTION O	F MATE	RIALS		RESULT d	S ,	OR CORE BOX	K No.	SAMPLE No.	COUNTS	REMARKS h
	+		Concrete (6")									9	
0.5	1		Mad dance majet	hroun	n f CAND		PID = N	10				4	20" Recovery
	1		Med. dense, moist trace gravel - Poor	ly grac	ded SAND (SP)		13:35						20 Necovery
		-	FILL LAYER	₹								28	
	1	S-1										13	
2	1												
2.5	╁						DID N					11	Ol Danning
	_		Med. dense to ven f. SAND, some silt	y densi , trace	e, moist, brown gravel - Silty	'	PID = N 13:40					15	8" Recovery
	_	2	SAND (SM)									49	15" Penetration
	_	Ŷ				1						E0/21	
4	_											50/3"	
4.5	_											10	No Recovery
	_	S-3										18	INO Recovery
	1		NA/ T									21	
0	1	•	W.T.									18	
6	4	S-3										11	
6.5	+											10	No Recovery
	1											10	INO MECOVERY
	1	4										10	
0	7	S-4										13	
8	7											12	
8.5	‡		Looso wat black	m f C /	AND trace f		DID = 05 4	nnm				3	15" Recovery
	7		Loose, wet, black, gravel to c. sand,				PID = 95.1 8:35	וווטט				"	Oil stains(black)
	7	S-5	SAND (SP)									4	and petroleum-like odors are evident.
10	1		FILL LAYER	•								5	ouors are evident.
10 Modified MRK					PROJECT						1	HOLE N	
URSGWC Fee Log prepared		l Servic	res 7/25/02		Stratford Project No. R		ngine Plant F	Remedia	al Investigation				WC2-2I
- ·			_	i	•							•	

		HTW DRIL	LING LOG		51-V	HOLE No.	WC2-2I
ROJECT	DI	INSPEC	TOR			SHEET	2
tratford Army E	Engine PI SMPL.	ant Remedial Investigation Ricardo	FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	BLOW	4 SHEETS
DEPTH a	INT. b	DESCRIPTION OF MATERIALS c	RESULTS d	OR CORE BOX No.	SAMPLE No.	COUNTS	REMARKS h
	S-5					9	
10.5		,				1	
_	}	· ·					
_							
40 -							
12							
-							
_							
_					1		
14							
	1	,					
	}						
15		Very soft, wet, dk. gray, low plasticity,	PID = 0 ppm			-	24" Recovery
	1	ORGANIC SILT - ORGANIC SILT	8:45			1	124 110007017
]	(ML-OL)				1	
16	S-6	ESTUARINE SILT				***************************************	
_						1	
17						1	
'' _							
_							
18 -							
_							
-							
_							
_							
_							
20	ļ	Veny soft wet dk gray low plasticity	PID = 13.8 ppm				24" Recovery
_		Very soft, wet, dk. gray, low plasticity, ORGANIC SILT - ORGANIC SILT (ML-OL)	H ₂ S = 32 ppm 9:00			1	
_]	(IVIL-OL)	9.00			1	
_	S-7						
-						1	
.22						1	
-	1						
_							
_	1						
24							
_							
25	!	Veny soft wet dk gray low plasticity	PID = 4.8 ppm				24" Recovery
_	80	Very soft, wet, dk. gray, low plasticity, ORGANIC SILT - ORGANIC SILT	$H_2S = 21 \text{ ppm}$			1	2-7 TOOUVELY
_	S-8	(ML-OL)	9:10			2	
26 dified MRK F	orm 55	PROJECT			<u> </u>	HOLE N	I.

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		HTW	DRIL	LING LOG			HOLE No.	WC2-2I	
ROJECT			INSPECTO	OR .			SHEET	3 4 SHEETS	
trattord Army E	Engine Pl	lant Remedial Investigation	Ricardo Co	olón FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	OF BLOW	4 SHEETS	
DEPTH	INT.	DESCRIPTION OF MATERIALS		RESULTS	OR CORE BOX No.	SAMPLE No.	COUNTS	REMARKS	
а	b	С		đ	е	f	g	h	
_							2		
_	S-8						2		
27	!								
-									
_	1								
28 -	1								
_									
							ļ		
_	İ								
30	ļ	Very soft, wet, dk. gray, low plasti	city,	PID = 0 ppm		 		24" Recovery	
_		ORGANIC SILT - ORGANIC SILT		H ₂ S = 76 ppm 9:20			1		
_		(ML-OL)		9.20			2		
_	6-8								
] "						2		
_							2		
32 -									
-									
-									
-									
_, _							l		
34									
7	1								
-		•							
35		Voncoft wat die grov law placti	oitu	PID = 0 ppm				24" Recovery	
		Very soft, wet, dk. gray, low plasti ORGANIC SILT - ORGANIC SILT	oity,	$H_2S = 34 \text{ ppm}$			1	24 Necovery	
7		(ML-OL)		9:35			1		
36	S-10						ļ'		
-	γ̈́						3		
37							3		
-									
<u>,</u> , 1									
38									
7									
7									
j									
7									
40 7									
4		Very soft, dk. gray, low plasticity, (SILT - ORGANIC SILT (ML-OL)	DRGANIC	PID = 0 ppm 9:55			4	24" Recovery	
				0.00					
4	<u></u>	ESTUARINE SILT					2		
╛	S-11						_		
4		Increasing sand content					5		
							9		
42				[

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		H'	TW DRII	LING LOG			HOLE No.	WC2-2I
ROJECT			INSPEC	CTOR			SHEET	4
tratford Army I	Engine P SMPL.	lant Remedial Investigation	Ricardo	Colón FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	OF BLOW	4 SHEETS
DEPTH a	INT.	DESCRIPTION OF MATER	RIALS	RESULTS d	OR CORE BOX No.	SAMPLE No.	COUNTS	REMARKS h
							1	
_]							
=								
_		1						
44								
_								
45								
_		Med. dense, wet, reddish gravelly m-f SAND, trace	silt - Poorly	PID = 0 ppm 10:10			2	24" Recovery
		graded SAND with silt (SI					8	
46	S-12	GLACIAL DEPOSI	110				19	
_	1						24	
47	<u> </u>	-						
_	1							
48								
_	1							
_								
_								
_								
50	ļ	Loose to med. dense, we SAND - Poorly graded SA	et, brown, f.	PID = 0 ppm				16" Recovery
_		SAND - Poorly graded SA	AND (SP)	10:20			8	
=	S-13							
_	"						10	
52 -							11	
_								
=								
=								
=								
.54								
_								
55		l	ak hamassan f	DID = 0 ====				16" Recovery
_		Loose to med. dense, we SAND - Poorly graded SA		PID = 0 ppm 10:35			3	S-14
56 [–]	4	GLACIAL DEPOSI	ITS				8	
- -	S-14						10	
							10	
57		END OF BORING						
_								
58 -							11101 = 1	
ied MRK F			PROJECT	w Engine Plant Remedia			HOLE N	0. WC2-21

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PROJECT
Stratford Army Engine Plant Remedial Investigation
Project No. R98104

					BOF	RINC	3 L	OG	ì				HOLE No.	WC2-3D	
1. COMPANY			C Federal Services		2	. DRILLING		ONTRACT					SHEET	1 6 SHEETS	
3. PROJECT		3000	rederal Services			COIIII	ciicut	4. LOCA					101	OGREETO	
			rd Army Engine Pla	ant Re	medial Investi	gation				rd, Connecticut	OF DOUL				
5. NAME OF			Butrei					6. MANU		5 Truck Mounted		a			
7. SIZE AND				2" OD :	splitspoons			L		LOCATION	3 23 177 1 1	9			
AND SAME	PLING	EQU			ID, 5' augers				0.000	Near NW end o	of B-8 in	Area No. 2			
			F	Core b	arrei				9. SURF	+ 7.73 feet					
			E						10. DATE	STARTED		11. DAT	E COMPLETE	E D	
									15 555	4/9/99			4/13/99		
12. OVERBU		.5 fe							115. DEP	TH GROUNDWATER 5.2 feet	ENCOUN	IEKED			
13. DEPTH D									16. DEP		RS. AFTER	WELL DEVELOPME	NT		
14. TOTAL D		eet	101 F						17 OTU	5.5 ft bgs ER WATER LEVEL M	EACLIDE	AENITE (SDECIEVI			
14. 101AL D		feet							17. OTH	ER WATER LEVEL IVI	IEASUREI	MENTS (SPECIFT)			
18. GEOTEC					DISTURBED		U	NDISTUR	BED	19. TOTAL NUMBE		RE BOXES			
20 CAMPLE	e EOD	CHE	MICAL ANALYSIS		Voc		SEMI-VO	<u> </u>	T	METALS	1 TOTHER	(SPECIFY)	21 TOTAL	CORE RECOVERY	
			or S-2, S-4, S-6, S-10,		- VOC	+	SCIVII-V O	<u></u>		METALS		<u> </u>	1 1017	CONE NECOVERY	
			C & CEC Analysis.									TOC, CEC		55 inches	
22. DISPOSI	TION	OF HO	DLE		BACKFILLED	MONI	ITORING	WELL	ОТ	HER (SPECIFY)	- 23. NAN	NE OF INSPECTOR Ricardo Colón			
							Х								
DEPTH		IPL.					FIEI	D SCRE		GEOTECH SA		ANALYTICAL	BLOW		
(FEET) a	1	NT. b	DESCRIPTION OF	- MATE	KIALS			RESULT d	5	OR CORE BO	NO.	SAMPLE No. f	COUNTS	REMARKS h	
	士	Ť											1 - * -		
0.5	-														
	7		Loose, moist, brow			f.	Р	ID = 0 p 14:05					6	16" Recovery	
	1		SAND, trace grave	ı - Siit	Y SAND (SNI)			14:00)						
] ;	-	FILL LAYER	?									9		
	۰ ا	^ه											3		
2	-														
	1												3		
2.5	╫		Very soft, moist, dk	k. brow	vn. low plastic.		Р	ID = 0 p	mac			WC2-3D/S-2	2	20" Recovery	
	7		sandy SILT (ML)					14:10				Sampled for TOC, CEC		·	
	┧,	, l										Analysis	2		
	٦ ;	ρ.											2		
4	1														
	┨												1		
4.5	7						D	ID = 0 r	nm				1	No Recovery	
	1		W.T.				'	1D - 0 t	эрп					Nortecovery	
	┨ `												1		
	1 3	6											1		
6	_														
	\dashv												WOR		
6.5	\dashv		RADIDA IDA		ID 014 0 33 15	$\overline{}$		ID - 0					+	40" December	
	4		Moist, brown, silty f (SM)	ı. SAN	SANE לוונא - חו	,	1	ID = 0 p 14:20				WC2-3D/S-4		18" Recovery	
	7		•									Sampled for TOC, CEC			
,	7 5	4										Analysis		-	
8	Ηľ														
T	7														
8.5	_ـــــــــــــــــــــــــــــــــــــ														
	7		Loose, brown, f. SA SAND (SP)	- DNA	Poorly graded		Р	ID = 0 p	pm				2	16" Recovery	
:	┧ "	,											_	1	
	7 0	δ	FILL LAYER	2		İ							5		
40	1												7		
10 Modified MRK	Form	55			PROJECT		<u> </u>			1		1	HOLEN	lo.	
URSGWC Fed					Stratford	l Army E	Engine	Plant	Remedi	al Investigation	1			WC2-3D	
Log prepared			7/25/02		Project No.	R98104									

		HTW DI	RILLING LOG			HOLE No.	WC2-3D
PROJECT		TII.	NSPECTOR			SHEET	2
Stratford Army E	Engine PI SMPL.	ant Remedial Investigation	Ricardo Colón FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	OF BLOW	6 SHEETS
DEPTH a	INT.	DESCRIPTION OF MATERIALS	RESULTS d	OR CORE BOX No.	SAMPLE No.	COUNTS	REMARKS h
10.5	S-5					10	
10.5							
12							·
_							
_							
_							
15		Loose, wet, lt. brown, m-c SAND, some	e PID = 0 ppm		WC2-3D/S-6	ļ.,	24" Recovery
_		gravel - Poorly graded SAND (SP) GLACIAL DEPOSITS	14:45		for TOC and CEC Analysis	5	S-6
.16	S-6	SENOINE DEL SONTO					
_						8	
17						<u> </u>	
_							
18 -							
_							
_							
_							
-		Loose, wet, It. brown, m-c SAND, some gravel - Poorly Sorted SANDS (SP)	PID = 0 ppm 14:55			3	14" Recovery
	7					7	
	S-7					8	
22						12	
=							
=							
_							
.24							
-							
25		Med. dense,wet, dk. brown, m-c SAND), PID = 0 ppm				20" Recovery
٦	ا ہر ا	some f. gravel - Poorly Sorted SANDS (SP)	15:05			21	
7	ν I	(0) /				25	

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		H ⁻	TW DRIL	LING LOG			HOLE No.	WC2-3D
ROJECT	Engine Pl	ant Remedial Investigation	INSPEC Ricardo	TOR			SHEET	3 6 SHEETS
DEPTH a	SMPL. INT.	DESCRIPTION OF MATER		FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS	REMARKS h
	8-8						27	
27							23	
28								
=								
-								
30 -		Med. dense, wet, tan, f. S. silt - Poorly graded SAND		PID = 0 ppm 15:15			8	18" Recovery
	6-S						8	
-							13 17	
32								
34 								
-								
35		Med. dense, wet, tan, f. S. silt - Poorly graded SAND	AND, trace (SP)	PID = 0 ppm 15:30		Sampled WC2-3D/ S-10	8	18" Recovery
36	S-10					For TOC & CEC Analysis	16	
37							18	
		INCREASING FINES						
38								
=								
40								
		Med. dense, wet, tan, f. Sa silt - Poorly graded SAND	AND, trace (SP)	PID = 0 ppm 12-Apr-99 8:10				14" Recovery
-	S-11							

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			LING LOG			HOLE No.	WC2-3D
ROJECT	ngine P	INSPECTION INSPECTION Ricardo Ricardo	TOR			SHEET	4 6 SHEETS
DEPTH	SMPL.	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX No.	ANALYTICAL SAMPLE No.	BLOW	REMARKS
a	b	С	đ	e	f	9	h
14 – - -	·						
45 <u> </u>		Med. dense, wet, tan, f. SAND, trace silt - Poorly graded SAND (SP)	PID = 0 ppm 8:25		Sampled WC2-3D/ S-12 for TOC and CEC	3 8	18" Recovery
16 - -	S-12				Analysis	11	
47 -						9	
48 – -							
50 <u>-</u> -		Loose, wet, tan, f. SAND, trace silt - Poorly graded SAND (SP)	PID = 0 ppm 8:40			3	6" Recovery
-	S-13					5	
2 -						5	
- - - - -							
i4							
55		Loose, moist, tan, f. SAND, trace silt - Poorly graded SAND (SP)	PID = 0 ppm 8:55			4	12" Recovery
6 =	S-14					7	
i7 =						9	
ied MRK F	orm 55	PROJECT				HOLE N	0.

Plant Remedial Investigation Ricardo (Ricardo (R		GEOTECH SAMPLE OR CORE BOX No.	ANALYTICAL	SHEET OF BLOW	5 6 SHEETS
DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	OR CORE BOX No.	1		6 SHEETS
С			O A MIDLE NO.		
INCREASING FINES		e	SAMPLE No. f	COUNTS 9	REMARKS h
INCREASING FINES	1				
INCREASING FINES					
Loose, wet, tan, f. SAND, trace silt - Poorly graded SAND (SP)	PID = 0 ppm 9:15			2	9" Recovery
				1	
				3	
				5	
_					
Med. dense, moist, tan, f. SAND, trace	PID = 0 ppm			5	18" Recovery
SIL - FOOTHY GRADED SAND (SF)	9.30				
				°	
				10	
				14	
-					
Med. dense to dense, wet, brown, c-f	PID = 0 ppm		Sampled WC2 3D/		12" Recovery
graded SAND (SW)	9.40		S-17 for TOC		
			Analysis	24	
				35	
				40	
\dashv					
			<u></u>		
	Med. dense, moist, tan, f. SAND, trace silt - Poorly graded SAND (SP) Med. dense to dense, wet, brown, c-f SAND, some f. gravel, c. sand - Well graded SAND (SW)	Med. dense, moist, tan, f. SAND, trace slit - Poorly graded SAND (SP) Med. dense to dense, wet, brown, c-f SAND, some f. gravel, c. sand - Well graded SAND (SW) PID = 0 ppm 9:30	Med. dense, moist, tan, f. SAND, trace silt - Poority graded SAND (SP) Med. dense to dense, wet, brown, c-f. SAND, some f. gravel, c. sand - Well graded SAND (SW) PROJECT	Med. dense, moist, tan. f. SAND, trace silt - Poorly graded SAND (SP) Med. dense to dense, wet, brown, c-f. SAND, some f. gravel, c. sand - Well graded SAND (SW) PID = 0 ppm 9:30 Sampled WC2-3D/ 9:40 SAND (SW) PROJECT	Med. dense, moist, tan, f. SAND, trace Silt - Poorly graded SAND (SP) PID = 0 ppm 9:30 5 8 10 14 14 14 14 15 16 16 16 16 16 16 16

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		HT	W DRILI	LING LOC	3		HOLE No.	WC2-3D
ROJECT			INSPECTO	R	Accessed the Control of the Control		SHEET	6
ratford Army E	Engine Pl	lant Remedial Investigation	Ricardo Co	field screening	GEOTECH SAMPLE	ANALYTICAL	OF BLOW	6 SHEETS
DEPTH a	INT. b	DESCRIPTION OF MATERIA c	LS	RESULTS d	OR CORE BOX №. e	SAMPLE No. f	COUNTS g	REMARKS h
_								
75		Loose to med. dense, browi	o c-f SAND	PID = 0 ppm				19" Recovery
_		some f. gravel, c. sand - Po SANDS (SP)	orly graded	10:05			5	13 Necovery
76 _	S-18						7	
	0)						10	
77 _							14	
_								
78								
_								
_								
_								
80		Med. dense, brown, m-c SA	ND some	PID = 0 ppm				14" Recovery
		gravel, till - Poorly graded S	AND (SP)	- 10 - o ppm			11	1.0007019
_	S-19	GLACIAL DEPOSITS					11	
	,	Increasing silt content					21	
82 -							30	
=								
84								
84.5							E0 / 4"	Augor hito refered
85		Core Run #1	_ N		Core WC2-3D (Run #1)		50 / 1"	Auger hits refusal at 85'1".
		Phyllite, gray, fine- grained, thickly-	M		Penetration = 60 "		8 min	
86 -		bedded, strong (throughout core)	J. —M		Recovery = 55 "			
=		Legend N-Naturally occuring			Strength = Strong		7 min	
=		N-Naturally occuring fracture M-mechanical break	N		Hardness = Mod. Hard Sum of Lengths intact =			
]		(occurred during core run)	M		45.1"		5 min	
88 -		Note All naturally occurring	N		RQD = Sum of L intact / Pen. = 45.1/60 = 0.75			
1		fractures are caused by faulting.	M		Recovery % = Recovery/		6 min	
‡			M		Pen x 100% = 55/60 x 100% = 92%			
=							6 min	
90 -		END OF BORING	PROJECT					Penetration stopped at 90'1".
	orm ၁၁ ral Servic	es		Engine Plant Remed	ial Investigation		HOLE NO). WC2-3D

				BOR	ING	LOG	;				HOLE No.	WC2-31	
COMPANY I		WC Federal Servic	es	2.		NG SUBCONTRACTOR necticut Test Borings					SHEET	1 4 SHEETS	
PROJECT						4. LOCA	ATION						
NAME OF D		tford Army Engine	Plant Re	medial Investig	ation	6. MAN		rd, Connecticut ER'S DESIGNATION (OF DRILL			******	
		ve Butrej						5 Truck Mounted	Drill Ri	g			
		OF DRILLING QUIPMENT		split spoon ID, 5-foot auger	rs		8. HOLE	LOCATION Northeast side	of B-16.	near causeway	entrance (in Area No. 2)	
				.D, 0 1001 dago.			9. SURF	ACE ELEVATION		,,,,,,,	<u> </u>	,	
			-				10 DAT	+ 6.17 feet E STARTED		I11 DATE	E COMPLETE	-D	
			-				10. 5	3/25/99)	11. 5411	3/26/99		
		HICKNESS					15. DEP	TH GROUNDWATER					
		Freet INTO ROCK					16. DEP	6 feet below gro			IG COMPLET	TED .	
	0							3.7 ft bgs					
TOTAL DE	ртн с 55 1						17. OTH	ER WATER LEVEL M	EASUREN	MENTS (SPECIFY)			
GEOTECH				DISTURBED		UNDISTUR	RBED	19. TOTAL NUMBE		RE BOXES			
SAMPLES	FOR	CHEMICAL ANALYSIS		Voc	I SEM	1I-VOCs	T	METALS N	I/A	(SPECIFY)	21 TOTAL	CORE RECOVERY	
Smill LES	. JA	N/A			J. J.		†				1	5.12.1200VEN	
DISPOSITI	ONIC			BACKFILLED	MONITO	RING WELL	 	HER (SPECIFY)	23 814	1E OF INSPECTOR	L	N/A	
DISPOSITI	ONO	- NULE		DAUNFILLED			+ 01	HER (SPECIFY)	Zo. NAN	Ricardo Colón			
	1				<u></u>	X	<u> </u>		<u></u>		1	1	
(FEET)	SMF	 	N OF MATE	ERIALS		FIELD SCRE		GEOTECH SAI		ANALYTICAL SAMPLE No.	BLOW	REMARKS	
а	b		С			d		е		f	g	h	
	1	Asphalt (2")											
0.5	1	Med. dense, mo	niet It hr	own m-f SAND		PID = 0	nnm				20	20" Recovery	
_		some c. sand, t	race grav		,	10:30					20	20 Necovery	
_	1	Graded SANDS	(SP)					1			25		
_	S-1	FILL LAY	'ER								13		
2	1				ļ								
											23		
2.5	╁	Loose, moist, lt.	brown, r	m-f SAND		PID = 0	nom				13	24" Recovery	
_	1	some c. sand, to Graded SANDS	race grav			10:40					<u> </u>		
_	,		(37)								18		
-	S										13		
4	}												
4.5	1	Soil density dow	vngrades	to loose							8		
4.5	Г	Very loose, wet.				PID = 0					8	1" Recovery	
=	1	some c. sand, to Graded SANDS		el - Poorly		10:45	5						
_	S-3		, /								3		
_ =	Ś	1									3		
6	▼	W.T.										1	
6.5	<u> </u>										2		
						PID = 0 i					3	4" Recovery	
	1					10:55	כ					1	
7	S-4										2		
, I	l ^s										3		
8	1										<u> </u>		
3.5	<u> </u>									ļ-	4		
=		Very loose, wet, silt, trace gravel	olive gra	ay, c-f SAND, so	ome	PID = 0 i 11:05					3	10" Recovery	
_	3	(SP)	1 00119	CIACCO OAND		11.00	,						
-	တ်	FILL LAY	'ER								2		
10]										2		
fied MRK F	orm 5	5		PROJECT							HOLE N	0.	
GWC Fede prepared	ral Se	rvices 7/25/02	?	Stratford Project No. F		gine Plant	Remedi	ial Investigation				WC2-31	

		HTW DRI	LLING LOG			HOLE No.	WC2-3I
ROJECT		INSPE	CTOR			SHEET	2
tratford Army E	SMPL.	lant Remedial Investigation Ricard	Colón FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	BLOW	4 SHEETS
DEPTH	INT.	DESCRIPTION OF MATERIALS	RESULTS	OR CORE BOX No.	SAMPLE No.	COUNTS	REMARKS
а	b	С	d	e	f	g	h
	S-5					3	
10.5							*
_							
_							
7							
12							
_							
_							
-							
_							
_							
-							
15 -							
15		Soft, moist, dk. gray, low plasticity, ORGANIC SILT, trace f. sand	PID = 0 ppm			1	24" Recovery
_		ORGANIC SILT, trace f. sand ORGANIC SILT - (OL)	11:20			1	
						2	
	S-6	ESTUARINE SILT					
]						3	
-						3	
17							
-							
7							
18							
_							
_							
7							
Ⅎ							
7							
.20		Soft, moist, dk, gray, low plasticity.	PID = 0 ppm				24" Recovery
7		Soft, moist, dk. gray, low plasticity, ORGANIC SILT, trace f. sand ORGANIC SILT - (OL)	11:30			1	
4		JONGANIC SILT - (OL)				1	
7							
j						1	
4						3	
.22							
-							
4							
4							
コ							
-							
₂₄]							
.24							
7							
		1	1		1		L
25		Soft majet dk aray low plasticity	PID = 7.7 nnm				24" Recovery
25		Soft, moist, dk. gray, low plasticity, ORGANIC SILT, trace f. sand	PID = 7.7 ppm $H_2S = 7.7$ ppm			1	24" Recovery
25		Soft, moist, dk. gray, low plasticity, ORGANIC SILT, trace f. sand ORGANIC SILT - (OL)	PID = 7.7 ppm H ₂ S = 7.7 ppm 11:45				24" Recovery

PROJECT
Stratford Army Engine Plant Remedial Investigation

Project No. R98104

WC2-31

		HTW DRILI	LING LOG	i		HOLE No.	WC2-3I
ROJECT	Engine Pi	INSPECTO ant Remedial Investigation Ricardo Co	R	And the second s		SHEET	3 4 SHEETS
DEPTH a	SMPL. INT.	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	S-8					2	
27						2	
28							
=							
=							
30		Soft, moist, dk. gray, low plasticity, ORGANIC SILT, some f. sand	Headspace				24" Recovery
=	1	ORGANIC SILT, some f. sand ORGANIC SILT - (OL)	= 2.2 ppm 12:00			WOR 2	
=	6-S					2	
32							
=							
-							
34							
35		Soft, moist, dk_ gray, low plasticity,	Headspace				24" Recovery
36	S-10	ORGANIC SILT, trace f. sand, trace organic debris (OL)	= 2.1 ppm 13:10			2	
_	ς					2	
37							
38 -							
=							
40 -		Soft, moist, dk. gray to black, low plasticity, ORGANIC SILT, trace organic debris	PID = 0 ppm 13:25			3	24" Recovery
- - -	S-11	(OL) ESTUARINE SILT				3	
=	Ġ					3	
42 dified MRK F	Form 55 eral Service	PROJECT	Engine Plant Remedi	<u> </u>		HOLEN	lo. WC2-3I

		HTW DRIL	LING LOG			HOLE No.	WC2-3I	_
ROJECT	Engir - D	INSPEC ant Remedial Investigation Ricardo	CTOR			SHEET	4 4 SHEETS	
rattore Army E	SMPL.	ant Remedial Investigation Ricardo	FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	BLOW	4 SHEETS	
DEPTH a	INT.	DESCRIPTION OF MATERIALS	RESULTS d	OR CORE BOX No. e	SAMPLE No.	COUNTS	REMARKS h	
	-							
_								
	1							
_	1							
44								
_								
45		Med. dense, moist, gray, c-f SAND,	PID = 0 ppm				24" Recovery	
_		some gravel - Well graded SAND (SW)	13:45			5	·	
46	2	GLACIAL DEPOSITS				6		
7	S-12					40	ŧ	
						13		
47						21		
								-
_								
48								
_		,						
_								
=								
50		Med. dense, moist, yellowish-orange,	PID = 0 ppm				24" Recovery	_
_		m-f SAND - Poorly graded SAND (SP)	14:00			15		
-	S-13					17		
_	γ̈́					15		
_						16		
52						10		
_								
53		Med. dense, moist, vellowish-orange	PID = 0 ppm			 	12" Recovery	
-		Med. dense, moist, yellowish-orange, m-f SAND, trace micaceous sand - Poorly Graded SANDS (SP)	PID = 0 ppm 14:20			18	,	
₅₄ =		GLACIAL DEPOSITS				13		
54	S-14	GLACIAL DEFUSITS				10		
						13		
55						20		
7		END OF BORING						
=								
56								
_								
7								
57								
-								
_		1	1		F	1	I	
58						İ		

7/25/02

Stratford Army Engine Plant Remedial Investigation
Project No. R98104

WC2-31

				BOR	ING L	OG				HOLE No.	WC2-3S
. COMPANY N		C Federal Service	ne.	2.	DRILLING SUBC					SHEET OF	1 1 SHEET
PROJECT						4. LOCATIO	V			15,	
NAME OF DE		ord Army Engine F	Plant Rer	medial Investig	ation		ratford, Connecticut	OF DRILL			
	Steve		1				ME 75 Truck Mounted	Drill Rig)		
SIZE AND TO				split spoon D, 5-foot auge	rs	8.	HOLE LOCATION On walkway be	tween B	-16 and berm fer	nce(in Are	a No. 2).
				, , , , , , , , , , , , , , , , , , , ,		9.	SURFACE ELEVATION				
						10.	+ 7.02 feet DATE STARTED		11. DATE	COMPLETE	ED .
				·····			3/29/99			3/30/99	
2. OVERBURI	DEN THI					15.	DEPTH GROUNDWATER 5.5 feet	ENCOUNT	ERED		
3. DEPTH DR	ILLED IN					16.	DEPTH TO WATER 24 HF	S. AFTER	WELL DEVELOPMEN	NT	
4. TOTAL DEF	O PTH OF F	HOLE				17.	5.9 ft bgs OTHER WATER LEVEL M	EASUREM	ENTS (SPECIFY)		
	12 fee			- BIOTHESES	1	NDIOTI IDDE	LIO TOTAL NUMBER	D 05 00D	E DOVEC		
B. GEOTECH	NICAL SA	AMPLES		DISTURBED		NDISTURBED		K OF COR	E BOXES		
). SAMPLES I	FOR CHE	EMICAL ANALYSIS		voc	SEMI-VO	Cs	METALS	OTHER (SPECIFY)	21. TOTAL	CORE RECOVERY
		N/A									N/A
2. DISPOSITIO	ON OF H	OLE		BACKFILLED	MONITORING	WELL	OTHER (SPECIFY)	23. NAMI	E OF INSPECTOR		
					X				Ricardo Colón		
DEPTH (EEET)	SMPL. INT.	DESCRIPTION	I OE MATE	DIALS	FIE	LD SCREENIN	NG GEOTECH SA OR CORE BO		ANALYTICAL SAMPLE No.	BLOW	REMARKS
(FEET) a	b b	!	C	INIDEO		d d	e e	7. INU.	f f	9	h Driller augered down
	V	W.T.	G								directly to 12 ft(from g.s.). Split spoons were not used during the advancing of the hole. For a characterization of the soil within the same area as this well, please refer to WC2-21.
14 dodified MRK F	orm 55			PROJECT						HOLE N	lo.
	ral Servic	200			Army Engine	Plant Rei	nedial Investigation	ı			WC2-3S

					30RIN	IG I	LO	G			HOLE No.	WC2-41	
COMPANY		C Federal Service	s	2.	DRILLING SUBC					SHEET	1 3 SHEETS		
ROJECT						4. LOCA	ATION	encentral and a second			10.	o dilecto	
AME OF D		ord Army Engine F	lant Rer	medial Investiga	tion	6. MANI		rd, Connecticut ER'S DESIGNATION	OF DRILL		· · · · · · · · · · · · · · · · · · ·		
TE AND T		h Yarrow DRILLING	Tail OD	split spoon			Mobile	B53 LOCATION					
		UIPMENT		ID, 5' augers				South Eastern	Section of Site(South	of Sniffens Lane)			
							9. SURF	7.61 feet					
							10. DATI	E STARTED		11. DAT	E COMPLET		
VERBUR	DEN TH	CKNESS					15. DEP	10/26/9 TH GROUNDWATER			10/26/99)	
CDTU DE	> 37 f	eet ITO ROCK					16 DED	4 feet	RS. AFTER WELL DEVELO	DAKENIT			
	0												
OTAL DE	PTH OF						17. OTH	ER WATER LEVEL N	EASUREMENTS (SPECIF)	n			
EOTECH	NICAL S.	AMPLES		DISTURBED	U	NDISTUR	RBED	19. TOTAL NUMBE	R OF CORE BOXES				
AMPLES	Yes FOR CH	EMICAL ANALYSIS		Voc	SEMI-VO	Cs	Τ	METALS	none OTHER (SPECIFY)		21. TOTAL	CORE RECOVERY	
	N/A	\		no	no			no		no		N/A	
ISPOSITI	ON OF H	OLE		no BACKFILLED	MONITORING	WELL	ОТ	HER (SPECIFY)	23. NAME OF INSPECTO		<u> </u>	See Agreement, , .	
				yes	X					Steve G. Vallia	nos		
EPTH	SMPL.		05.44.75		FIE	LD SCRE			EOTECH SAMPLE	ANALYTICAL	BLOW	BELLADIA	
FEET) a	INT.	DESCRIPTION	C MATE	CARIN		RESULT d	10		R CORE BOX No.	SAMPLE No. f	COUNTS g	REMARKS h	
_		Asphalt										Drilled through one foot of asphalt.	
-		V. dense, moist, trace gravel (SP)		n, m-f SAND,							12	Installed 4" I.D.	
_	1	adde graver (or)				D = 0.0 S" Reco					22	Casing	
· -	S ₁	FILL LAYE	ER			, reco	VCIV						
_											29		
_	1										30		
_		V. dense, wet, lt.		m-f SAND,							25	†	
_	1	trace gravel (SP)				O.0 = C					30	-	
1	-	FILL LAYE	=K		20	" Reco	very				30	-	
_	1										32		
_	1	W.T.									28		
_		.	,	04110								 	
_	1	M. dense, wet, br trace f. gravel (S'	own, t-c W)	SAND,		0 = 200 2" Reco					6	-	
<u> </u>	S3	F=11.1.1.2.2	-D								11	1	
_		FILL LAYE	:K								16		
_	1										18]	
_												 	
_	1	Same as S-3			PI) = 200 " Reco	ppm very				12	-	
3	22	FILL LAYE	R								11		
_	J "										11		
_	1										14	1	
_	_	M. dense, brown-	grey, gr	avelly SAND								 	
_	SS	(SP)			PII 14) = 0.0 Reco	ppm very				3		
0 -] "	GLACIAL	DEPOSI	ITS			-				6		
ied MRK F		*		PROJECT			_			A	HOLE N		
10 odified MRK F RSGWC Fede g prepared		L		PROJECT		Plant	Remedi	al Investigation				No. WC2-4I	_

		HTW	/ DRILLING LC	G		HOLE No.	WC2-4I
OJECT	Engine Pla		PECTOR ve G. Vallianos			SHEET	2 3 SHEETS
DEPTH a	SMPL. INT.	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS	REMARKS h
			U		'	12	
-	SS					30	
-							
_							
2	-						
-							
-	1						
-							
4							
-							
15 _		V. dense, wet, olive-grey, f. SAND, trace m. sand, trace silt (SP)				 	
-		trace m. sand, trace silt (SP) GLACIAL DEPOSITS	PID = 0.0 ppm 19" Recovery			8 25	
16	S-6	SER CONTE DEL CONTO					
-						32	
7						48	
-							
8 -	-						
-							
-							
-							
0 _							
-	-	V. dense, wet, tan, f. SAND, trace m. sand (SP)	PID = 0.0 ppm			22	
-	S-7	GLACIAL DEPOSITS	PID = 0.0 ppm 23" Recovery			20	
-	s					43	
2 -						100/5"	
_							
_							
=]						
- -							
24							
]						
25 _	-	M Dense grav-brown m fSAND	PID = 0.0 ppm 8" Recovery			3	
_	S-8	M. Dense, gray-brown, m-f SAND (SP)	O Nacovery			8	
26 ified MRK F	orm 55	PROJECT				HOLE No	o.
GWC Fede prepared	eral Servio	ses Stratford a 10/26/99 Project No. R	Army Engine Plant Remedial Inv 98104	estigation			WC2-4I

		HTW	DRILLING LO	G		HOLE No.	WC2-4I
PROJECT	-11	INSPEC	CTOR			SHEET	3
	ngine Pla SMPL.	ant Remedial Investigation Steve G	S. Vallianos FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	OF BLOW	3 SHEETS
DEPTH a	INT. b	DESCRIPTION OF MATERIALS	RESULTS d	OR CORE BOX No.	SAMPLE No.	COUNTS	REMARKS h
=	S-8	GLACIAL DEPOSITS				11	
27						13	
7							
=							
]							
30 =		V. dense, red-brown, gravelly SAND	PID = 0.0 ppm				
]		(SP) GLACIAL DEPOSITS	18" Recovery			6 18	
=	S-9					39	
32						39	
=							
=							
]							
34							
35							
\exists		V. dense, grey-brown, f-c SAND, little f. gravel (SP)	PID = 0.0 ppm 13" Recovery			24	Used roller-bit
36	S-10	GLACIAL DEPOSITS				24	with drilling fluid (water) to reach required depth of 35 feet bgs.
]						33 42	35 feet bgs.
37		END OF BORING AT 37' BELOW		WANTED TO THE TOTAL PROPERTY OF THE TOTAL PR			
38		GROUND SURFACE.					
=							
=							
10							
40							
=							
}							
42 Jodified MRK For		PROJECT				HOLE N	

Modified MRK Form 55 PROJECT
URSGWC Federal Services Stratford Army Engine Plant Remedial Investigation
Uproject No. R98104

HOLE No.
WC2-4I

WC2-4I

COMPANY		C Federal Service	s	2.		UBCONTRACT					SHEET	1 2 SHEETS
. PROJECT						4. LOCA	TION				15.	_ 0.12270
. NAME OF D		ord Army Engine P	lant Re	medial Investig	ation	6 MANI		d, Connecticut	F DRII I			
	Steve	Butrej	·			J. 147.114C	CME 7	truck-mounted				
. SIZE AND T				split spoon ID, 5' foot auge	rs		8. HOLE	LOCATION In NE section of	Area N	o. 2, SW of build	dina B-19	
Onitif			7 1/4	.b, o loot auge			9. SURFA	ACE ELEVATION		J. 2, 011 of ball	y D 10.	
							10. DATE	STARTED		I11. DATI	E COMPLETE	ED
								3/21/99			3/22/99	****
2. OVERBUR	DEN THI						15. DEPT	H GROUNDWATER				
3. DEPTH DE	RILLED IN					Mary Control of the C	16. DEPT	H TO WATER AND E			G COMPLET	TED
4. TOTAL DE	0 PTH OF	HOLE					17. OTHE	5.2 ft bgs R WATER LEVEL ME	EASUREM	ENTS (SPECIFY)		
	12 fee	et		·								
8. GEOTECH	INICAL S	AMPLES		DISTURBED		UNDISTUR	BED	19. TOTAL NUMBER	R OF COR /A	E BOXES		
0. SAMPLES	FOR CH	EMICAL ANALYSIS		voc	SEN	/II-VOCs		METALS		SPECIFY)	21. TOTAL	CORE RECOVERY
		N/A										N/A
2. DISPOSIT	ION OF H	IOLE		BACKFILLED	MONITO	RING WELL	ОТІ	HER (SPECIFY)	23. NAM	E OF INSPECTOR		
						Χ				Ricardo Colón		
DEPTH	SMPL.	DECODIDE	OFMAT	- DIAL C		FIELD SCRE		GEOTECH SAN		ANALYTICAL SAMPLE No.	BLOW	REMARKS
(FEET) a	INT. b	DESCRIPTION	C MATE	ERIALS		RESULT d	3	OR CORE BOX	NO.	SAMPLE No.	g	h
-		Concrete (9")										No geotechnical samples were collected for this well
0.75	Loose, moist, brown, f. SA gravel to c. sand, trace silt				It - Poorly PID = 0						8	12" Recovery
-	_ [Graded SAND wi		SP-SM)		15.15)				8	
2	S-1	FILL LAYE	R							10		
_	1										8	
2.75	}	Med. dense, mois	st hrowi	n f SAND -		PID = 0 p 15:20					12	24" Recovery
-	1	Poorly Graded Sa	AND (SI	P)	1							
_	S-2				Ì	10.20					14	
4 -	ļ ^{iý}	·									13	
_	1											1
4.75											16	
W.T	-	Loose, wet, brow	n, f. SA - Poorly	ND, trace f. y graded SAND		PID = 0 p	pm				3	16" Recovery
-	1	(SP)				15:25					5	
6 -	S-3										7	1
_	}											
6.75	<u> </u>										10	
-		Loose, wet, brow	n f SA	ND trace f							6	24" Recovery
-	1	gravel to c. sand graded SAND (SI	- Poorly			PID = 0 p 15:30					6	1
	S-4	graded SAND (SI	F)			15.30	•					-
8	S										6	
-											8	
8.75		Loose, wet, brow	n, f. SA	ND, trace f							5	6" Recovery
-	1 ,	gravel to c. sand graded SAND (SI	- Poorly			PID = 0 p 15:35					<u> </u>	
-	S-5					13.33	•				5	
10 -	<u> </u>	FILL LAYE	:K								7	
odified MRK F	Form 55			PROJECT							HOLE N	lo.

		НТ	W DRILL	ING LOG			HOLE No.	WC2-4S
PROJECT			INSPECTOR	R			SHEET	2
Stratford Army E		ant Remedial Investigation	Ricardo Col			T	OF	2 SHEETS
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERI	ALS	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
10.75	S-5			:			14	
-		END OF BORING						
12								
14								
15								
16								
17								
18 -								
- -								
20 -		.						
24								
25								
-						*		
26 Modified MRK F	orm 55		PROJECT	Engine Blant Bemedia		L	HOLE No).

7/25/02

Stratford Army Engine Plant Remedial Investigation Project No. R98104

WC2-4S

				E	30RII	۱G ا	LO	3			HOLE No.	WC2-5I
1. COMPANY U		C Federal Services	3	2.	DRILLING SUBC						SHEET	1 4 SHEETS
3. PROJECT		ord Army Engine P		modial Investiga	***************************************	4. LOCA	TION	rd, Connecticut				
5. NAME OF D	RILLER		iani Nei	nediai nivestiga	tion	6. MANU	JFACTUR	ER'S DESIGNATION O	OF DRILL			
7. SIZE AND T		h Yarrow DRILLING	2" OD.	split spoon		<u> </u>	Mobile 8. HOLE	B53 LOCATION				
AND SAMPI	LING EQ	JIPMENT		D, 5' augers			o cupe	South Eastern S	Section of Site(in parki	ng lot by building 19)		
								9.34 feet				
			<u> </u>				10. DATI	E STARTED 10/25/99	a	11. DATE	E COMPLETE 10/25/99	
12. OVERBUR			1				15. DEP	TH GROUNDWATER	ENCOUNTERED		75.25.55	
13. DEPTH DE	> 42 f						16. DEP	7.3 @ 1045hrs t TH TO WATER 24 HR	ieet S. AFTER WELL DEVELOPI	MENT		
14. TOTAL DE	0 PTH OF I	HOLE		d			17 OTH	ER WATER I EVEL ME	EASUREMENTS (SPECIFY)			
	42 fee	t		r								-
18. GEOTECH	NICAL S	AMPLES		DISTURBED	'	INDISTUR	BED	19. TOTAL NUMBER	R OF CORE BOXES none			
20. SAMPLES		EMICAL ANALYSIS		voc	SEMI-VO	Cs		METALS	OTHER (SPECIFY)		21. TOTAL	. CORE RECOVERY N/A
L	N/A			no	no			no		no		IV/A
22. DISPOSITI	ON OF H	OLE		BACKFILLED	MONITORING	3 WELL	ОТ	HER (SPECIFY)	23. NAME OF INSPECTOR	र Steve G. Vallia	nos	
DERTI	SMPL.	T		yes	X	LD SCREI	ENIBIO	т	OTECH SAMPLE	ANALYTICAL	BLOW	т
DEPTH (FEET)	INT.	DESCRIPTION	OF MATE	RIALS		RESULT			R CORE BOX No.	SAMPLE No.	COUNTS	REMARKS
а	b		С			d			e	f	9	h
_ _		Asphalt										Drilled through one foot of asphalt.
		Dense, moist,bro	wn. m-f	SAND.							<u> </u>	F
_	1	(SP)	,,,,,	·,	PI	D = 0.0	nnm				13	. F
2 -	1_	FILL LAYE	:p			2" Reco					12	F
-	S1	TILL LATE	.11								20	1 -
-	1										26	
_	<u> </u>	Damas maist wh		f CAND							20	ļ <u>-</u>
_	1	Dense, moist, wh (SP)	ite-prow	n, m-i sand,		D . 0.4					19	
	1	FILL LAYE	R		1	D = 0.1 8" Reco	very				19]
4	SS											1 -
_											20	-
_											32	
_	ł	V. dense, moist, t		n-f SAND,		D = 0.2					25	
_	}	trace f. gravel (SF	²)		1	6" Reco	very				26	1
6	ß	FILL LAYE	R									1
_	1										24	- E
_	-					-					22	<u> </u>
=	*	W.T.				D = 0.2					52	F
_		V. dense, wet, bro trace f. gravel (SF	own, m-o P)	c SAND,		8" Reco					48	1 F
8	\$	FILL LAYE										- F
=	1										50	ļ F
_	1										43	<u> </u>
-	İ	Dense, brown, f-c gravel (SP)	SAND,	little	Di	D = 0.0	nnm				6	T
=	SS	FILL LAYE	D		1 1.	4" Reco	very				12	
10	<u> </u>	FILL LAYE	.г.	DDC ISOS				<u></u>	W			
Modified MRK F URSGWC Fede		es				e Plant I	Remedi	al Investigation			HOLE N	WC2-5I
Log prepared		10/25/99		Project No. R	98104							

			HOLE No. WC2-5I				
IECT ord Army E	Engine Pla	ant Remedial Investigation Steve C	CTOR S. Vallianos			SHEET 2 OF 4 SHEETS	
ЭЕРТН а	SMPL. INT. b	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX №. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
	S5					19	
=	S					21	
_							
12							
=		÷					
.14							
_							
15	4	V. dense, wet, brown, gravelly SAND (SP)	PID = 0.0 ppm 18" Recovery			8	
16	S-6A	FILL LAYER	18" Recovery			43	
	S-6B	V. dense, wet, tan, f-m SAND trace silt (SP)				100/6"	
17		GLACIAL DEPOSITS					
_							
18							
_							
_							
_							
20 -		V. dense, tan, f. SAND, trace				7	
=		silt (SP)	PID = 0.0 ppm 12" Recovery			26	
	S-7	GLACIAL DEPOSITS				43	
22 -						82	
_							
_							
24							
_							
25		N/ Depos top of CAND	PID = 0.0 ppm 10" Recovery			75	
	S-8	V. Dense, tan, m-f SAND (SP) GLACIAL DEPOSITS	10 Recovery			75 100/4"	
26 dified MRK F		PROJECT Stratford Arr	ny Engine Plant Remedial Inv			HOLE NO). WC2-5I

		HTW)G	was	HOLE No.	WC2-5I	
JECT ford Army 8	Engine Pla		ECTOR e G. Vallianos			SHEET OF	3 4 SHEETS
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX №. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
_	S-8						
27 _							
28 -							
- - -							
0	-	V. dense, tan, f. SAND, little	PID = 0.0 ppm 6" Recovery				
-	S-9	f. micaceous sand, trace silt (SP) GLACIAL DEPOSITS	6" Recovery			14 49	Used drilling fluid (water) to prevent SANDS from running into the
- - -	S					100/5"	Hollow Stem Auger.
2 <u>-</u> - - -							
-							
54 <u>-</u> -							
5 -		Loose, tan, m-f SAND (SP)	PID = 0.0 ppm 13" Recovery			3	
6	S-10	GLACIAL DEPOSITS				3	
7 =						16	
8 -					·		
<u>-</u>							
_							
0 -		No Recovery	No Recovery			6	
	S-11					8	
2 -				and distance		57	
ed MRK F GWC Fede repared	orm 55 eral Servic	PROJECT ses Stratford A 10/25/99 Project No. R9	rmy Engine Plant Remedial Inv	vestigation		HOLE N	io. WC2-5I

	HOLE No. WC2-51					
OJECT	II.	V DRILLING LO			SHEET	4
atford Army Engine		teve G. Vallianos FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	OF BLOW	4 SHEETS
DEPTH IN	T. DESCRIPTION OF MATERIALS	RESULTS d	OR CORE BOX No.	SAMPLE No. f	COUNTS g	REMARKS h
	END OF BORING AT 42' BELOW GROUND SURFACE.					
=						
]						
14						
=						
45						
46						
=						
47						
=						
48						
=						
=						
50						
=						
=						
=						
52						
=						
=						
54						4
55						
56						
57						
58						
ified MRK Form 5 GWC Federal Se		I Army Engine Plant Remedial In	vestigation		HOLE No.	WC2-5I

10/25/99

Stratford Army Engine Plant Remedial Investigation Project No. R98104

					BOR	RINC	G LOC	}				HOLE No.	WC2-5S
COMPANY			C Federal Service	<u> </u>	2.		G SUBCONTRAC					SHEET	1 2 SHEETS
PROJECT					L		4. LOC	ATION			~~~	1	
NAME OF			rd Army Engine P	lant Re	medial Investig	ation	6 MAN		rd, Connecticut ER'S DESIGNATION	OF DRILL			
	St	eve	Butrej				0. 100 11	CME T	ruck Mounted Di				
SIZE AND AND SAME			DRILLING		split spoon ID, 5-foot auge	re		8. HOLE	LOCATION Northeastern si	ection of	Area No. 2 hv t	he SE con	ner of building B-19.
71110 0711111		LQU	THE THE	7 177 1	1D, 0-100t auge	13		9. SURF	ACE ELEVATION	300011 01	7 11 0 0 1 1 0 . 2 by ti	10 02 001	101 of Building D 10.
								10 DAT	E STARTED		I _{11. DAT}	E COMPLET	ED
								1	4/2/99			4/14/99	
OVERBU		v thic 12 fe						15. DEP	TH GROUNDWATER 5 feet below gro				
DEPTH D	RILLE							16. DEP	TH TO WATER AND E	LAPSED	TIME AFTER DRILLIN	NG COMPLE	TED
TOTAL DI	0 EPTH	OFF	IOLE					17. OTH	7.5 ft bgs ER WATER LEVEL M	EASUREM	MENTS (SPECIFY)	***************************************	
	12	g fee	t .					<u></u>	T.,				
GEOTEC	HNIC	AL SA	MPLES		DISTURBED		UNDISTU	RBED	19. TOTAL NUMBE	R OF COR I/A	E BOXES		
SAMPLES	S FOF	R CHE	MICAL ANALYSIS		voc	- 9	SEMI-VOCs		METALS		SPECIFY)	21. TOTAL	CORE RECOVERY
			N/A										N/A
. DISPOSIT	TION	OF H	OLE		BACKFILLED	MON	ITORING WELL	ОТ	HER (SPECIFY)	23. NAM	E OF INSPECTOR	•	1.01
							Χ				Ricardo Colón		
DEPTH (CCCT)	- 1	MPL.	DECORPTION	05.44.77	DIALC		FIELD SCRI RESUL		GEOTECH SA OR CORE BO		ANALYTICAL SAMPLE No.	BLOW	REMARKS
(FEET) a	- 1	NT. b	DESCRIPTION	C MATE	MALO		RESUL d	.13	OR CORE BO	A NO.	SAMPLE No.	g	REMARKS h
	\exists		Asphalt (3")										
0.5	7		Loose, moist, bro	wyn f S	:AND - Poorly		PID = 0	nnm				5	20" Recovery
	ゴ		graded SAND (SI		, (14D 1 0011)		10:2						- 1.000701,
	┧.	_	FILL LAYE	R								5	
	∃ '	S-1										6	
2	7												
2.5	1_											9	
	7		Med. dense, mois Poorly graded SA	st, brow	n, f. SAND		PID = 0 10:2					10	14" Recovery
	╛		roony graded SA	NIND (OI	1		10.2	5				12	1
	∄ ;	S-2											
4	_											13	
•	\dashv											12	
4.5	7		Med. dense, wet,	brown.	m-f SAND		PID = 0	ppm				4	22" Recovery
W.T.	1	w	some f. gravel to SAND (SP)			ed	10:3						
	⇉ ,	S-3	GAND (GI)									11	
	┧ ′	ĊÒ										18	
6 .													
6.5	_											22	ļ
	\exists		Med. dense, wet, gravel - Well grad			ne	PID = 0	ppm				6	20" Recovery
	7		.,		•							11	
] ;	S-4										15	•
8	7											ļ.,	
	1											18	
8.5	Ⅎ		Med. dense, wet,			ne	PID = 0	ppm			•	12	20" Recovery
	Ⅎ.		gravel - Well grad		1D (SM)								1
-] ;	S-5	FILL LAYE	R							:	11	
10	7											12	
dified MRK					PROJECT				<u> </u>		1	HOLE N	
SGWC Fed	deral S	Servic	es 7/25/02		Stratford Project No. I		Engine Plant	Remed	al Investigation				WC2-5S

		HIW	DKILL	ING LOG	HOLE No. WC2-5S			
ROJECT			INSPECTO	R	SHEET 2			
tratford Army E	ngine Plar	nt Remedial Investigation	Ricardo Col	ón FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	OF BLOW	2 SHEETS
DEPTH a	INT.	DESCRIPTION OF MATERIALS		RESULTS d	OR CORE BOX No.	SAMPLE No.	COUNTS	REMARKS h
а		C		U		 	T I	
10.5	S-5						16	
7	l li	END OF BORING						
Ⅎ								
+								
.12]								
-								
=								
=								
14								
15								
_								
16								
_								
コ								
17								
7								
18								
_								
コ								
4	1							
7								
4								
20 -								
-								
4								
4								
7								
22 –								
\dashv								
7								
\exists								
\exists								
7								
24								
_								
25								
7								
-								

7/25/02

Stratford Army Engine Plant Remedial Investigation Project No. R98104

WC2-5S

				E	30R	ING	LOC	3			HOLE No.	WC2-61
. COMPANY		C Federal Service		2.		JBCONTRACT					SHEET	1 4 SHEETS
PROJECT	KSGW	C rederal Service	:5		Connection	4. LOCA					101	4 SHLETS
NAME OF E		ord Army Engine F	Plant Ren	nedial Investiga	tion	G MANU		d, Connecticut	OE DDILL			
. NAME OF L		h Yarrow				o, MAN	Mobile		OF DRILL			
SIZE AND 1				split spoon			8. HOLE	LOCATION	C+		the bires	
AND SAMP	LING EQI	JIPMENT	4 1/4"	D, 5' augers			9. SURF	South Eastern :	Section of Site(east of	tank farm pad next to	tne birm)	
								6.96 feet				
							10. DATE	STARTED 10/26/9	19	11. DAT	E COMPLETE 10/27/99	
. OVERBUF							15. DEP1	TH GROUNDWATER	ENCOUNTERED			T-111111, ALIANIA VIIIA
. DEPTH DE	> 52 f						16 DEPT		n 10/26/99) feet RS. AFTER WELL DEVELOP	MENT		
. 621 11161	0	TO KOOK						5.6 (1430hrs or	n 10/27/99)			
. TOTAL DE	PTH OF I						17. OTHE	ER WATER LEVEL M	MEASUREMENTS (SPECIFY)		
GEOTECH				DISTURBED		UNDISTUR	BED	19. TOTAL NUMBE	ER OF CORE BOXES			
	Yes			VOC			т	METALS	none		Tot. TOTAL	CORE RECOVERY
. SAMPLES		EMICAL ANALYSIS		VOC	SEMI	I-VOCs		METALS	OTHER (SPECIFY)		121. TOTAL	N/A
	N/A			no		10		no		no		
. DISPOSIT	ION OF H	OLE		BACKFILLED	 	RING WELL	OTI	HER (SPECIFY)	23. NAME OF INSPECTO	R Steve G. Vallia	nos	
		·		yes		X		·	<u></u>			
DEPTH (FEET)	SMPL.	DESCRIPTION	OF MATE	RIALS		FIELD SCRE RESULT		I .	EOTECH SAMPLE OR CORE BOX No.	ANALYTICAL SAMPLE No.	BLOW	REMARKS
a	b		С			d			е	f	g	h
_	-											Drilled through
-	-	Asphalt										one foot of asphalt.
-		M damas maist	h	- f CAND								
-	1	M. dense, moist, trace gravel (SW		II-I SAND,	1						8	Installed 4" I.D.
-	1					PID = 0.0 15" Reco					12	Casing
2	SI F	FILL LAYE	ER									
-	1										10	
-	1										12	
-	<u> </u>	Same as S1										
-	1					PID = 0.0	nnm				12	
, -	1					6" Recov					9	
4	S2											
-	-	w.t.									8	
_	_										9	
-	ļ —	M donosst 5	look/all -	toined) f		nu maleu-	ationina				4	Patroloum like
-	1	M. dense, wet, B SAND, trace gra	vel, petro	leum-like	"	nu malfund 6" Recov					4	Petroleum-like odors and
6	S3	odors, shean on	water (SI	P)							6	shean on water is evident.
-] is	FILL LAYE	ER								6	
_	1										8	1
-	1		,								<u> </u>	
-	1	Loose, black-gre m-f SAND, trace	gravel, p	etroleum-like		PID = 200					3	Petroleum-like
-	S4A	odors shean on v				20" Reco	very				3	odors and shean on water
8) Ņ	FILL LAYE	ER			PID = 150	ppm				<u> </u>	is evident.
-											2_	
-	S4B	Soft, black-grey,	ORGAN	IC SILT (OH)		PID = 18	ppm				2	
-	S	ESTUARI Dense, grev, m-f	NE SILT	LAYER	+-							Petroleum like
-	1,	f. gravel, fuel-like				PID = 0.0					21	odors are
-	SS	FILL LAYE	ER			10" Reco	very				23	evident.
10 dified MRK f	orm 55	L		PROJECT				1			HOLEN	lo.
offied MKK F SGWC Fedi prepared		es 10/27/99)			jine Plant	Remedi	al Investigation	1		I TOLL IN	WC2-61

			HOLE No.	WC2-6I			
ECT ord Army	Engine Pla	ant Remedial Investigation Steve 0	CTOR S. Vallianos			SHEET OF	2 4 SHEETS
EPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
-	S5					20	
-						21	
-							
=							
_							
-		Dense, It. grey, f-c SAND, trace f. gravel, slight fuel odor (SW)	PID = 0.0 ppm 20" Recovery			8	
	9-S	FILL LAYER				11	sands getting darker
		·				48	V
_							
3							
-							
-							
·		Dense, olive-grey, m-f micaceous SAND, trace silt (SP)	PID = 0.0 ppm			15	sands are getting
=	S-7	FILL LAYER	15" Recovery			20	
						25	
=							
-		Same as S-7	PID = 0.0 ppm 18" Recovery			10	
_	S-8					15	sands becoming darker @ 26.7'.
	form 55 eral Servic	PROJECT es Stratford Ari 10/27/99 Project No. R98*	ny Engine Plant Remedial Inv	restigation		HOLE N	lo. WC2-6I

		HTW	DRILLING LO	G		HOLE No. WC2-61		
JECT	Engine DI-	INS	PECTOR ve G. Vallianos			SHEET	3 4 SHEETS	
DEPTH	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS 9	REMARKS h	
						19		
_	S-8					32		
27								
-								
28 -	1							
_								
	1							
_]							
-								
30	-	Dense, brown-grey, m-f micaceous SAND, trace gravel	PID = 0.0 ppm 17" Recovery			8		
_		(SP)				16		
_	S-9	FILL LAYER						
_						24		
32						33		
_								
_								
-	1							
_]							
34	}							
_								
35 _	1	V. dense, tan, m-f micaceous	PID = 0.0 ppm					
-		SAND (SP)	PID = 0.0 ppm 15" Recovery			13		
36	S-10	FILL LAYER				26		
	ψ					33		
	1 1					35		
³⁷ –	-							
_	1			· ·				
38]							
_								
_								
_								
10 -								
		M. dense, tan, m-f micaceous SAND, trace gravel (SP)	PID = 0.0 ppm 24" Recovery			11		
	-	FILL LAYER				10		
	S-11					40		
_						12		
42 ified MRK F		PROJECT				HOLE No		

		HTW 1	DRILLING LO	G		HOLE No. WC2-61		
JECT		INSPEC	CTOR			SHEET 4		
tford Army I	Engine Pla SMPL.	ant Remedial Investigation Steve G	3. Vallianos FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	OF BLOW	4 SHEETS	
DEPTH	INT.	DESCRIPTION OF MATERIALS	RESULTS d	OR CORE BOX No.	SAMPLE No.	COUNTS g	REMARKS h	
a	b	С	<u> </u>	е		9		
_	1							
=	1							
-								
_	1							
44	}							
	1							
_	1							
45								
_		M. dense, brown, m-f SAND (SP)	PID = 0.0 ppm 15" Recovery			3		
_	1		15 Necovery			ł 1		
46	12	FILL LAYER				7		
	S-12					17		
_	1							
47	<u> </u>					25		
_								
_	1							
48	1							
_	1							
_	1							
_	1							
_	1							
_	1							
50 -	<u> </u>							
_	d	V. dense, brown, f-c SAND, trace f. gravel (SP)	PID = 0.0 ppm 12" Recovery			13		
_	S-13A		(for whole spoon)					
-]	GLACIAL DEPOSITS				51		
_	<u>а</u>	V. dense, green-brown, f-c SAND, little weathered gravel (GP)	(for whole spoon)			64		
_	S-13B		(72		
52 -	S	GLACIAL DEPOSITS				12		
_		END OF BORING AT 52' BELOW						
_	1	GROUND SURFACE.						
_	1							
_								
_]							
54								
_								
_								
55 _								
=								
_								
56								
_								
_								
57								
_								
_								
58								
	orm 55	PROJECT				HOLE NO		

					BOF	RING	LOC	3			HOLE No.	WC3-1D	
1. COMPANY		C Federal Service:		2.		SUBCONTRACT					SHEET	1 6 SHEETS	
3. PROJECT	KSGW	C Federal Services	<u>s</u>	i	Connec	4. LOCA					101	USHEETS	\dashv
5. NAME OF D		ord Army Engine P	Plant Rer	nedial Investiga	ition	G MANI		d, Connecticut	OF DDILL				_
5. NAME OF L		h Yarrow				O. MANG	Mobile		OF DRILL				
7. SIZE AND T				split spoon			8. HOLE	LOCATION					
AND SAMP	LING EQI	JIPMENT	4 1/4"	D, 5' augers			9. SURF	Southern Section	on of West Parking lot				\dashv
							1	6.28'					
							10. DATE	STARTED 11/1/99	a	11. DAT	E COMPLETI 11/2/99	ED	
12. OVERBUR	RDEN THI	CKNESS					15. DEP	TH GROUNDWATER		L	11/2/33		_
	87 fee						10 DED		ground surface feet RS. AFTER WELL DEVELOPI	ACAIT.			4
13. DEPTH DE	O O	ITO ROCK					16. DEP	4.9' bgs - 16 ho		MENI			
14. TOTAL DE							17. OTH		EASUREMENTS (SPECIFY)				٦
18. GEOTECH	87 fee			DISTURBED		UNDISTUR	BED	19. TOTAL NUMBE	R OF CORE BOXES			······	\dashv
	Yes			X		ONDIO (O)		10. 10171211011152	none				
í		EMICAL ANALYSIS		voc	SE	MI-VOCs		METALS	OTHER (SPECIFY)		21. TOTAL	. CORE RECOVERY n/a	
NA NA				no		no		no		10		IVa	
22. DISPOSIT	ION OF H	OLE		BACKFILLED	MONIT	ORING WELL	ОТ	HER (SPECIFY)	23. NAME OF INSPECTOR				٦
				yes		Χ				Steve G. Vallia	nos		İ
DEPTH	SMPL.			yes	<u> </u>	FIELD SCRE	ENING	G	EOTECH SAMPLE	ANALYTICAL	BLOW	Ī	1
(FEET)	INT.	DESCRIPTION		RIALS		RESULT	rs	0	PR CORE BOX No.	SAMPLE No.	COUNTS	REMARKS	
а	b		С			d		<u> </u>	e	1	9	h	七
-	7	Asphalt										Drilled through one foot of	F
-	1	Assiran										asphalt.	F
	<u> </u>	M. dense, moist,	brown, r	m-f SAND,					.A. 1411A17A47A				士
_	-	trace silt (SP)									14	_	H
_	1										12		_
2	S	FILL LAYE	=K			PID = 1.6					 	1	E
_	1					16" Reco	very				7		F
-	1										7		F
-	_	M. dense, wet, gr		n, f-c	+			 			†		士
-		SAND, little grave W.T.	el (SP)			PID = 87	nnm				12	1	-
	1 '	GLACIAL	DEPOS	ITS LAYER		14" Reco					12	Solvent odors are evident	F
4	S2											are evident	
-											15	_	F
-	1										39		F
-		Dense, wet, grev		f-c								†	7
-	ł	SAND, little grave	el (SP)			PID = 100					11		E
6 -	1 _	GLACIAL	DEPOS	ITS LAYER		10" Reco	very				20	Solvent odors are evident	F
6	S S										~7	1	F
-	1										27	4	E
_	1										23		F
-		Dense, wet, grey									22		
-	1	SAND, trace f. gr									23	·	E
8 -	-	GLACIAL	DEPOS	ITS LAYER	1	PID = 59 24" Reco	ppm verv				18	Solvent odors are evident	F
	22					_:	3				40	1	F
-	1										18	1	E
_	-										19		F
_		1										T	1
-	1										4		F
10	-										5		F
Modified MRK F				PROJECT	L_						HOLE N		\top
URSGWC Fede	eral Servio	tes 11/2/99		Stratford Project No. R		ngine Plant	Remedi	al Investigation				WC3-1D	
Log prepared		11/2/99		Project No. F	30104						1		ı

		HTW	DRILLING LO	G		HOLE No. WC3-1D		
OJECT	Engine Pl	INSPEC				SHEET	2 6 SHEETS	
DEPTH a	SMPL. INT.	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS 9	REMARKS h	
_		M. dense, wet, grey-brown, c-f SAND, trace f. gravel (SP)				7		
-	S5	GLACIAL DEPOSITS LAYER	PID = 3.0 ppm 12" Recovery			12	Solvent odors are evident	
-	"					14		
12	1					23		
-								
- -								
.14								
- -								
15 _		Dense, wet, red-brown, f-c SAND, trace little gravel (SP)				12		
16	9-S	GLACIAL DEPOSITS LAYER	PID = 3.5 ppm 11" Recovery			23		
-	"					30		
17						33		
-	1							
_								
-	-							
20] 		_					
-	-	Hard, tan, SILT and f. SAND (ML)	PID = 3.4 ppm 13" Recovery			30		
_	S-7	GLACIAL DEPOSITS LAYER				38		
22 -						72		
-								
-	_							
=								
24								
25								
د د -		V. dense, tan, f. SAND and SILT (ML)	PID = 3.5 ppm 18" Recovery			29		
26	8.8	GLACIAL DEPOSITS LAYER				37		
dified MRK F		PROJECT Stratford Arn	ny Engine Plant Remedial Inv	estigation	-	HOLE No). WC3-1D	

			DRILLING LO	G		HOLE No.	WC3-1D
ECT ord Army B	Engine Pla		CTOR G. Vallianos		and the same of th	SHEET	3 6 SHEETS
EPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
=	S-8					60	
, =	Ś					65	
=							
=							
-							
-							
		V. dense, f. micaceous SAND, trace silt (SP)	PID = 3.0 ppm 11" Recovery			73	Strong odors
-		GLACIAL DEPOSITS LAYER				100/5"	are evident
_	S-9						
_							
_							
-							
						- Andrews	
		V. dense, tan, f. micaceous SAND, trace silt (SP)	PID = 2.0 ppm			38	Strong odors
-		GLACIAL DEPOSITS LAYER	PID = 2.0 ppm 20" Recovery			46	are evident
	S-10					81	
111						86	
_							
-							
		M. dense, grey-brown, f. micaceous SAND, little silt (SP)	hnu/pid malfunction 20" Recovery				
=		SAND, little silt (SP) GLACIAL DEPOSITS LAYER	20" Recovery			11	Strong odors are evident
=	S-11					13	
						15	
MRK F	orm 55 ral Servic	PROJECT	my Engine Plant Remedial Inve		L	HOLE N	lo. WC3-1D

			DRILLING LO	G		HOLE No. WC3-1D		
OJECT	Engine Pla	INSPECTION INSPECTION Steve Co.	CTOR S. Vallianos			SHEET	4 6 SHEETS	
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g		
-								
_								
-								
44								
45 		V. dense, grey-brown, f. micaceous SAND, little silt (SP)	hnu/pid malfunction 20" Recovery			13	Strong odors	
- 46	S-12	GLACIAL DEPOSITS LAYER				19	are evident	
_	, s					34		
17						40		
48 <u> </u>								
_								
_								
50 -		Same as S-12	hnu/pid malfunction					
_ _ _			hnu/pid malfunction 24" Recovery			16	Strong odors are evident	
_	S-13					35	-	
52						43	-	
								
- -								
_								
54								
55		Dense, grey-brown, SILT and f. SAND (ML)	hnu/pid malfunction 18" Recovery 11/01/99			12	Strong odors are evident	
- 66	S-14	GLACIAL DEPOSITS LAYER	11/01/99			13	are evident	
-	·γ					21	0	
57 _						37	Concluded drilling activities for 11/01/99	
_								
58 fied MRK F	orm 55	PROJECT Stratford Arr	ny Engine Plant Remedial Inve		· · ·	HOLE N	 No. WC3-1D	

			HOLE No. WC3-1D					
JECT		INSPE			TANK THE TAN	SHEET 5 OF 6 SHEETS		
Tord Army E	Engine Pla SMPL.	ant Remedial Investigation Steve	G. Vallianos FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	OF BLOW	0 SHEETS	
DEPTH a	INT. b	DESCRIPTION OF MATERIALS	RESULTS d	OR CORE BOX No. e	SAMPLE No. f	COUNTS	REMARKS h	
o -		Same as S-14	howelf melfunction					
	S-15	Same as 5-14	hnu/pid malfunction 24" Recovery 11/01/99			18 21	Strong odors are evident	
-	o,					28		
2 – –								
4 -								
5 -		Dense, grey-brown, f. micaceous SAND, little silt (SP)	hnu/pid malfunction 20" Recovery			11	Strong odors are evident	
6 -	S-16	GLACIAL DEPOSITS LAYER				7		
, <u> </u>						18	-	
o								
-		Same as S-16	hnu/pid malfunction 18" Recovery			11 12	Strong odors are evident	
-	S-17					19	-	
_ 						26]	
-								
4 -								
ied MRK F	orm 55 ral Servic	PROJECT es Stratford Ar	my Engine Plant Remedial Inve	estigation		HOLE N	lo. WC3-1D	

			DRILLING LO	G		HOLE No.	WC3-1D	
OJECT	Engine D	ı	PECTOR e G. Vallianos			SHEET	6 6 SHEETS	
DEPTH	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS 9		
75								
76		V. stiff, grey-brown, SILT and f. SAND, lenses of thin red clay (ML) GLACIAL DEPOSITS LAYER	hnu/pid malfunction 10" Recovery			13 9	Strong odors are evident	
76 - - -	S-18					17	Tip of split-spoon contains orange-brown	
77 -						44	f-m SAND (micaceous)	
78 -								
- - - -	-							
80 -		V. dense, grey-brown, f. SAND,	hnu/pid malfunction					
-	S-19	some f. gravel, little silt (SP) GLACIAL DEPOSITS LAYER	15" Recovery			23 25 41	Strong odors are evident	
82 - - - - - -								
84 - -								
85 <u> </u>		Same as S-19	hnu/pid malfunction 10" Recovery			68	Strong odors	
86 <u> </u>	S-20					47	-	
- - -		END OF BORING				1		
88 - - - - -								
90						HOLE		
ified MRK F GWC Fede		PROJECT ces Stratford A 11/2/99 Project No. R9	army Engine Plant Remedial Inve	estigation		HOLE N	NO. WC3-1D	

BORING					RING	LOC	3			HOLE No.	WC3-1I	
1. COMPANY		C Federal Service:		1		SUBCONTRAC					SHEET	1 1 SHEET
3. PROJECT						4. LOCA					101	TOTILLT
5. NAME OF I		ord Army Engine P	lant Rer	nedial Investigat	tion	6 MANI		d, Connecticut	AF DRILL			
5. NAME OF		h Yarrow				0. 18/214	Mobile		51 Brille			
7. SIZE AND				split spoon D, 5' augers			8. HOLE	LOCATION Southorn Soction	on of West Parking lot			
AND SAMP	LING EQI	DIPMENT	4 1/4 1	D, 5 augers			9. SURF	ACE ELEVATION	on or west Farking lot			
							1	6.28'		14 517	E COMPLETI	
					h		10. DATE	STARTED 11/3/99)	III. DAI	11/3/99	=0
12. OVERBU		CKNESS					15. DEP1	TH GROUNDWATER	ENCOUNTERED			
13. DEPTH D	>40'	TO ROCK					16. DEPT	Use WC3-1D a	s reference S. AFTER WELL DEVELOP	MENT		
	0					-						
14. TOTAL DE	EPTH OF I						17. OTHE	ER WATER LEVEL M	EASUREMENTS (SPECIFY)		
18. GEOTECH				DISTURBED		UNDISTUR	RBED	19. TOTAL NUMBE	R OF CORE BOXES			
20. CAMPLES	No.	EMICAL ANALYSIS		none voc		none MI-VOCs	Τ	METALS	none OTHER (SPECIFY)		21 TOTAL	CORE RECOVERY
20. SAMPLES	o rok on				JL.	WIFVOCS		WETALO		no	٦٠٠٠	n/a
22. DISPOSIT	10N 05 ::	NA		no BACKFILLED		no ORING WELL		no HER (SPECIFY)	23. NAME OF INSPECTO			
ZZ. DISPOSIT	ION OF H	OLE		DAUNFILLED	MONIFO		011	HER (SPECIFY)	25. NAME OF INSPECTO	Steve G. Vallia	nos	
	1	Ţ		yes		X		T ==	TOTTOU OANS: 5	T	T BLOW	
DEPTH (FEET)	SMPL. INT.	DESCRIPTION	OF MATE	RIALS		FIELD SCRE RESULT		1	EOTECH SAMPLE R CORE BOX No.	ANALYTICAL SAMPLE No.	BLOW	REMARKS
а	b		С			d			е	f	9	h
36 38 40												Driller augered down directly to 40 ft. The split spoons were not used during the advancing of the hole. For a characterization of the soil, please refer to WC3-1D.
		END OF BORING	3									
Modified MRK	42 PROJECT GWC Federal Services PROJECT Stratford Army Engine Plate Project No. R98104					ngine Plant	Remedi	al Investigation			HOLE	I. Io. WC3-1I

				E	30RII	NG I	_00	}			HOLE No.	WC3-2D
1. COMPANY		C Federal Service		2.	DRILLING SUBO						SHEET	1 5 SHEETS
3. PROJECT	KSGW	C rederar Service	5		Connecticut	4. LOCA					101	JOHELIO
5. NAME OF E		ord Army Engine F	Plant Ren	nedial Investiga	tion			d, Connecticut R'S DESIGNATION	OF DRILL		***************************************	
J. IVANIE OF E		h Yarrow				1	Mobile I		OI DIVIEL			
7. SIZE AND 1				split spoon			8. HOLE	LOCATION	f Mt Dtipe let			
AND SAMP	LING EQI	JIPMEN I	4 1/4" [D, 5' augers			9. SURFA	CE ELEVATION	on of West Parking lot			
								6.68'				M.
							10. DATE	STARTED 10/28/9	99	11.	10/29/9	
12. OVERBUR	DEN THI	CKNESS	J				15. DEPT	H GROUNDWATER		<u></u>	10/20/0	<u>×</u>
	63 fee						10 DEDT		ground surface feet RS. AFTER WELL DEVELOPI	MENT		٠
13. DEPTH DE	O VILLED IN	IIO ROCK					16. DEP1	H TO WATER 24 H	KS. AFTER WELL DEVELOP	MENI		
14. TOTAL DE							17. OTHE	R WATER LEVEL N	MEASUREMENTS (SPECIFY)			The state of the s
18. GEOTECH	63 fee			DISTURBED		JNDISTURE	RED	19 TOTAL NUMBER	ER OF CORE BOXES			
o. GLUTEUF	Yes	220		X		- IDIO I UNI		, o. TOTAL NOWIDE	none			
20. SAMPLES		EMICAL ANALYSIS		voc	SEMI-V	OCs		METALS	OTHER (SPECIFY)		21. TOTA	L CORE RECOVERY
		N/A		no	no			no	1	no		N/A
22. DISPOSIT	ION OF H	OLE		BACKFILLED	MONITORIN	G WELL	OTh	HER (SPECIFY)	23. NAME OF INSPECTOR			
				Voe	Х					Steve G. Va	allianos	
DEPTH	SMPL.	1		yes	FIE	LD SCREE	NING	G	SEOTECH SAMPLE	ANALYTIC	AL BLOW	
(FEET)	INT.	DESCRIPTION		RIALS		RESULTS	s		OR CORE BOX No.	SAMPLE N	l l	Į.
a	b	 	С			d			e	f	g	h
_	1	Aanhalt										Drilled through one foot of
_	Ⅎ	Asphalt										asphalt.
		M. dense, moist,	red-brow	vn. f. SAND.			***************************************					
_	1	little silt (SP)		,,							8	Installed 4" I.D. Casing
_	₫										10	Casing
2	S	FILL LAYE	ER		P	ID = 0.0	nnm					-[
_	1					2" Recov					9	
-	1										9	
-		M. dense, wet, bi	rown f-c									-
_	1	SAND, trace gra				ID - 00					6	
_		FILL LAYE	ΞR			ID = 0.0 5" Recov					9	
4	85	w.T.										1
_	1										17	
-	1										32	
=	 											+
-	1	No Recovery - N	o sample	obtained							40	
_	1										42	
6	SS										-	1
_	1										48	_
-	1										50	
_	-	V. dense, wet, br	own, f-c								-	
_	1	SAND, trace f. gr	ravel (SV	V)	P	ID = 0.0 ; 0" Recov	ppm				21	
	1	GLACIAL	DEPOSI	TS	2	- 11000V	. Si y				31	
8	82											-
_	1										38	_
_	1										35	
_												+
_												
-	1											
10 Todified MRK F	orm 55	İ	<u> </u>	PROJECT						L	HOLE	No.
JRSGWC Fede		ces			Army Engin	e Plant F	Remedia	al Investigation	1		Inole	WC3-2D
og prepared		10/28/99	. [Project No. R				-				

JECT ford Army B	Engine Pla		SPECTOR eve G. Vallianos			SHEET	2 5 SHEETS
ЕРТН а	SMPL. INT.	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
		V. dense, wet, brown, f-c SAND, trace f. gravel (SW)		William I Company of the Company of		7	
=		GLACIAL DEPOSITS	PID = 0.0 ppm 10" Recovery			24	
	SS						
_	1					30	
<u>-</u>	1					34	
-							
_	1						
-							
_							
	1						
	1						
Ξ	1						
=		Dense, wet, grey, f-c SAND, trace f. gravel (SP)					
-			PID = 0.0 ppm 15" Recovery			9	
	S-6	GLACIAL DEPOSITS				18	
_	Ο̈́					22	
_						28	
-							
_							
_							
_							
_							
_							
)							
_		Same as S-6				9	
_		GLACIAL DEPOSITS	PID = 0.0 ppm 16" Recovery			19	
	S-7					-	
_		Brown, SANDY SILT (ML)				22	
						25	
_							
_							*
=							
_							
_							
_							
_		V. dense, tan, micaceous f. SAND, trace silt (SP)	PID = 0.0 ppm 20" Recovery			47	
_	8-8		Zu Recovery			47	
-		GLACIAL DEPOSITS				72	
d MRK F NC Fede	orm 55 ral Servic	PROJECT Stratford	Army Engine Plant Remedial Inv	restigation		HOLE N	o. WC3-2D
epared		10/28/99 Project No. F				1	

	HOLE No. WC3-2D						
JECT ford Army I	Engine Pla	SHEET OF	3 5 SHEETS				
оертн а	SMPL. INT. b	DESCRIPTION OF MATERIALS	e G. Vallianos FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
-	S-8					80	M
7 -	"					100	
=							
3 <u>-</u>	}						
-							
=							
		Same as S-8	PID = 0.0 ppm 24" Recovery			24	
=			24 Necovery			29	
_	S-9					31	
	-					50	
=							
=							
_							
_							
=		Same as S-8	PID = 0.0 ppm 16" Recovery			25	
	0		10 Necovery			21	
	S-10					22	
_						27	
_							
=							
_							
		Same as S-8	PID = 0.0 ppm 21" Recovery			13	
=	-		21 Necovery			10	
=	S-11					15	
MRKF	orm 55	PROJECT				20 HOLE No	<u> </u>
	eral Servic		Army Engine Plant Remedial Inve	estigation		INCLE INC	WC3-2D

	HOLE No.	WC3-2D					
OJECT tford Army I		SHEET OF	4 5 SHEETS				
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
-							
_	1						
]						
4 -	1						
]						
		Dense, tan, f. SAND, trace red silt lenses (SP)	PID = 0.0 ppm 24" Recovery	,		16	
6	5	GLACIAL DEPOSITS				24	
 	S-12					22	
17	1					39	
-							
- 8							
]						
_							
-]						
50							
50	<u> </u>	V. dense, tan, f. SAND, little silt (SM)	PID = 0.0 ppm 20" Recovery			7	
_	1	GLACIAL DEPOSITS				22	
	S-13					31	
-						37	
52							
54					ľ		
<u></u>]						
55							
· -		V. dense, brown, m-f SAND, trace silt (SP)	PID = 0.0 ppm 17" Recovery			49	
-	.	GLACIAL DEPOSITS				84	
6	S-14					100/5"	
_							
57							
-							
8 ied MRK F	orm 55	PROJECT s Stratford A	rmy Engine Plant Remedial Inve			HOLE No). WC3-2D

			V DRILLING LO	G		HOLE No.	WC3-2D
ROJECT	noine Pla	l l	SPECTOR eve G. Vallianos			SHEET	5 5 SHEETS
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS	REMARKS h
- -	<u> </u>					9	· · · · · · · · · · · · · · · · · · ·
-							
_							
60							
-	S-15A	V. dense, brown, m-f SAND, trace silt (SP)	PID = 0.0 ppm 22" Recovery			34	
	1	GLACIAL DEPOSITS Hard, grev, SANDY SILT				64	
1 1	S-15B	(ML) GLACIAL DEPOSITS				78	
62	S					100/4"	
		EUR OF ROBINO					
=		END OF BORING					
64							
=							
65							
66							
67							
=							
68 =							
=							
=							
=							
70							
=							
=							
=							
72 -							
=							
=							
_, =							
74 dified MRK Fo	orm 55	PROJECT				HOLE N	0.

-				E	BORIN	٧G	LOC	3			HOLE No.	WC3-21
1. COMPANY		C Federal Service	e	2. 1	DRILLING SUBO					***************************************	SHEET	1 1 SHEET
3. PROJECT						4. LOCA	ATION				.1.	
5. NAME OF D		ord Army Engine F	lant Ren	nedial Investigat	tion	6. MAN		d, Connecticut R'S DESIGNATION (OF DRILL			****
7. SIZE AND T		h Yarrow	2" OD	split spoon			Mobile I	B53 LOCATION		***		
AND SAMPI				D, 5' augers				Southern Section	on of West Parking lot			
							9. SURFA	6.28 feet				
							10. DATE	STARTED 10/29/99	a	11. DAT	10/29/99	
12. OVERBUR		CKNESS	L	A			15. DEPT	H GROUNDWATER	ENCOUNTERED		10/23/30	
13. DEPTH DR	>40' RILLED IN	TO ROCK					16. DEPT	Use WC3-2D a: TH TO WATER 24 HR	S reference S. AFTER WELL DEVELOPMEN	IT		***************************************
14. TOTAL DE	0 PTH OF F	HOLE					17. OTHE	R WATER LEVEL M	EASUREMENTS (SPECIFY)			
	40 fee	t		DIOTUDDED		JNDISTUR			R OF CORE BOXES			
18. GEOTECH	NO NO	AMPLES		DISTURBED none		none	KRED	19. TOTAL NUMBER	none			
20. SAMPLES	FOR CH	MICAL ANALYSIS		voc	SEMI-VO	OCs		METALS	OTHER (SPECIFY)		21. TOTAL	. CORE RECOVERY n/a
an Bioponiti		015		no BACKFILLED	no MONITORIN	0.1451.1	071	no IED (ODEOUE)()	no 23. NAME OF INSPECTOR		<u></u>	
22. DISPOSITI	ON OF H	JLE		BACKFILLED	MONITORIN	GWELL	011	HER (SPECIFY)	23. NAME OF INSPECTOR	Steve G. Vallia	nos	
DEPTH	SMPL.			yes		LD SCRE	ENING	GE	EOTECH SAMPLE	ANALYTICAL	BLOW	T
(FEET)	INT.	DESCRIPTION	OF MATER	RIALS		RESULT d	TS	0	R CORE BOX No.	SAMPLE No.	COUNTS	REMARKS h
36		END OF BORING	3									Driller augered down directly to 40 ft. The split spoons were not used during the advancing of the hole. For a characterization of the soil, please refer to WC3-2D.
42 Modified MRK F			T	PROJECT				<u> </u>			HOLE N	
URSGWC Fede Log prepared	eral Servic	es 11/2/99		Stratford A Project No. R		e Plant	Remedia	al Investigation				WC3-2I

				ļ	BOF	RING	LO	G			HOLE No.	WC5-1D
1. COMPANY		C Fadaral Carrian		2.		SUBCONTRAC					SHEET	1 6 SHEETS
3. PROJECT	KSGW	C Federal Service	S	1	Connec	4. LOCA		,,,,,,			101	0 SHEETS
		ord Army Engine P	lant Rei	medial Investiga	ation			rd, Connecticut	05.550			
5. NAME OF I		Butrej				6. MAN		ER'S DESIGNATION 55 Truck Mounted				
7. SIZE AND			2" OD,	, split spoon				LOCATION	, Driii , tig			****
AND SAMP	LING EQ	JIPMENT	4 1/4"	ID, 5' augers			Ī		the SW Corner of Mai	n Building B-2, northerr	section c	of Area No. 3.
			Core E	Barrel			9. SURF	ACE ELEVATION				
							10. DAT	+ 7.75 feet E STARTED		I11. DATI	COMPLET	ED
							1	4/13/9	9		4/14/99	
12. OVERBUR							15. DEF	TH GROUNDWATER	ENCOUNTERED			
13. DEPTH DI	85 fee						16 DEE	5 feet	RS. AFTER WELL DEVELOR	PMENT		
10. DE. 111 D.	5	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						5.5 ft bgs				
14. TOTAL DE							17. OTH	IER WATER LEVEL N	MEASUREMENTS (SPECIFY	")		
18. GEOTECH	90 fee			DISTURBED		UNDISTUR	DRED	10 TOTAL NUMBE	ER OF CORE BOXES			
IO. GEOTECE	TINICAL S	AMPLES		X	1	UNDISTUR	VDED.	19. TOTAL NOMBE	1			
20. SAMPLES	FOR CH	EMICAL ANALYSIS		VOC	SE	MI-VOCs	I	METALS	OTHER (SPECIFY)		21. TOTAL	CORE RECOVERY
	from S-2	and S-6 for TOC and							ТО	C, CEC		55"
CEC Analysis. 22. DISPOSIT	ION OF H	OLE		BACKFILLED	MONIT	ORING WELL	0-	THER (SPECIFY)	23. NAME OF INSPECTO		1	Washington Control of the Control of
AL. DIOPOSII	.5., 01 11			-,1011,1010		X	† Ť	(5. 2011)	1	Ricardo Colón		
					<u> Д</u>						1 =: -:	
DEPTH (FEET)	SMPL. INT.	DESCRIPTION	OE MATE	DIAI S		FIELD SCRE		1	EOTECH SAMPLE OR CORE BOX No.	ANALYTICAL SAMPLE No.	BLOW COUNTS	REMARKS
(FEE1)	b b	1	C WATE			ď		1	e	f SAMPLE NO.	g	h
		Loose, moist, bro	wn, f SA			PID = 0						18" Recovery
-	-	gravel, trace orga roots) (SP)	anic deb	ris (dead		15:05	0				1	4
-	1				ŀ						3	The area is
-	S-1	FILL LAYE	:K		ļ							unpaved
-	7										8	
-	1										7	1
2		Coff maint brown	n aand	· CILT (CM)		PID = 0				WC5-1D/S-2	ļ	20" Recovery
	_	Soft, moist, brow		V SILT (SIVI)		15:10				Sampled	4	20 Necovery
_	4	FILL LAYE	R							for TOC & CEC Analysis	4	1
_	S-2									OLO Allalysis		1
	1 °										2	
-	1											1
4	-										2	
	1	Loose, wet, It. bro				PID = 0		7			2	16" Recovery
-	_	trace c. sand, tra Poorly Graded SA	ce mica ANDS (S	ceous sand SP)		15:15	ט	1				-
_	_ [GLACIAL									3	
-	 8	W.T. GLACIAL	DE708	110								1
-	-										4	1
_	1										6	
6	 	Same as S3				PID = 0	ppm				-	24" Recovery
-	7					15:20	P- P				3]
-	1										7	
_	S-4										<u> </u>	4
-											8	
_	-										8	1
8	1											<u> </u>
_	-	Same as S3				PID = 0 i 15:30					2	12" Recovery
-	1	Camo ao oo				10.50	-					1
_	2										4	
-	S-5										T .]
-	1										4	-
40 -	1 .										5	
10 Modified MRK I	Form 55	l		PROJECT							HOLE N	J √o.
URSGWC Fed		ces				ngine Plant	Remed	ial Investigation	1			WC5-1D
Log prepared		7/25/02		Project No. I				-				

			DRILLING LC)G		HOLE No.	WC5-1D
CT d Army E	Engine Pla	INSPER ant Remedial Investigation Ricardo				SHEET	3 6 SHEETS
PTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
_						13	
_	S-8					17	
_							are and one took now when over the took took took took took
_							
_							
_							
		Loose to med. dense, wet, brown to It. brown, f-c SAND, some f. gravel	PID = 0 ppm 16:15			3	8" Recovery
_		Well Graded SANDS (SW)	15.10			3	
_	S-9					12	
-						27	
_							
_		·					
-							
_							No Recovery
-			N/A			6	
	S-10						
_						8	
_						"	
_							
_							
_							
_							
		Loose wet It brown m-f SAND	PID = 0 ppm				17" Recovery
_		Loose, wet, It. brown, m-f SAND Poorly graded SAND (SP)	4/14/99 9:05			3	
=	S-11					5	
=	S					6	
		,				8	
	orm 55 ral Servic	PROJECT Stratford Arr	ny Engine Plant Remedial Inv	restigation		HOLE N	o. WC5-1D

			RILLING LC)G		HOLE No.	WC5-1D
JECT	Engine Pla	INSPECTOR IN Remedial Investigation Ricardo Co				SHEET	4 6 SHEETS
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX №. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
				4,000			
_	1 1						
_	1						
_	1						
4							
_							
5 -		Loose, wet, greenish-gray, f SAND, trace silt - Poorly Graded Sands (SP)	PID = 0 ppm 9:20			3	17" Recovery
-	-	trace silt - Foorty Graded Sands (SF)	9.20			5	
6	S-12						
_]					7	
7 _	1					9	
_							
8 -]						
_							
_							
_	1						
]						
0	± -1	Loose, wet, greenish gray, f SAND, trace	PID = 0 ppm 9:35			3	13" Recovery
-		silt - Poorly graded SAND with silt (SP-SM)	9.35			3	
_	S-13						
_]					7	
2 -							
_							
_]						
_	1 1		`				
4 =							
]						
_							
5	+ +	Loose, wet, olive-gray, m-f SAND, trace silt - Poorly Graded SANDS (SP)	PID = 0 ppm 9:50			3	20" Recovery
	-	OIL - LOUIN GLAUGU OMNDO (OF)	9.50			3	
6	S-14						
_						5	
7 _	1					7	
8 -	1						
ied MRK F	orm 55 eral Service	PROJECT Strafford Army	Engine Plant Remedial In	vestigation		HOLE N	o. WC5-1D

		HTW D	RILLING LC)G		HOLE No.	WC5-1D
JECT	noine Pl	ant Remedial Investigation Ricardo Co	OR .			SHEET	5 6 SHEETS
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h
_				W			
7							
_							
io		Loose, wet, olive-gray, m-f SAND, trace	PID = 0 ppm			-	12" Recovery
7		silt - Poorly Graded SANDS (SP)	10:00			3	
	2					4	
	S-15					7	1
_							
32						7	
-							
Ⅎ						l	
_							
+							
54							
35		Loose, olive-gray, m-f SAND, trace silt	PID = 0 ppm				22" Recovery
7		Poorly Graded SANDS (SP)	10:10			3	
<u> </u>	9					3	
6	S-16					_	1
_						5	
57						8	
7							
4							
8 –					ļ		
\exists							
F							
7							
コ							
,, 🗦							
<u>'0</u>		Loose, wet, olive-gray, m-f SAND, some silt - Poorly Graded SAND (SP)	PID = 0 ppm 10:20				20" Recovery
\dashv		silt - Poorly Graded SAND (SP)	10:20			4	
7	17					6	
7	S-17					6	
						-	1
2 -						10	
\exists							
7							
Ⅎ							
E							
7							
4 7		1	1		1	1	

Martic M			HTW D	RILLING	LOG		HOLE No.	WC5-1D
BOTH NT DESCRIPTION OF MATERIALS FELD SCHEENING GROTECH SAMPLE ANALYTICAL BLOW SAMER N. DOWN SAMER N			INSPECTO	OR .				
Part Part	Stratford Army E		ant Remedial Investigation Ricardo Co		GEOTECH SAMPLE	ANALYTICAL		6 SHEETS
2005, Wint, Greenish-care, 1 SAND PID = 0 porm 10.40 2 3 3 3 3 3 3 3 3 3		INT.		RESULTS	OR CORE BOX No.	SAMPLE No.	COUNTS	
Dodge, Uniform SAND PID = 0 porm 10.40 2 3 3 3 3 3 3 3 3 3	=							
20	75 <u> </u>		Loose, wet, greenish-gray, f SAND Poorly Graded SANDS (SP)	PID = 0 ppm 10:40			2	20" Recovery
South Strength S	76	18					3	
16 16 17 18 18 18 18 18 18 18	_	γ̈						
Solution Solution	77 _						3	
CORE RUN #1	78 -							
B4	- - - -							
Same	80		Loose, greenish-gray, f SAND, Poorly	PID = 0 ppm				18" Recovery
Spoon hit refusal at 85' 2" Spoon hit refusal at 85' 2" Spoon hit refusal at 85' 2" Spoon hit refusal at 85' 2" Spoon hit refusal at 85' 2" Spoon hit refusal at 85' 2" Spoon hit refusal at 85' 2" Spoon hit refusal at 85' 2" Spoon hit refusal at 85' 2" Spoon hit refusal at 85' 2" Spoon hit refusal at 85' 2" Strenath = Stronq Hardness= Mod. Hard Sum of lengths intact = 51" RQD = Sum of L intact / Pen. = 51/60 = 0.85 Note Note Note Note All naturally occurring fractures along Featain Note Note Note Note Spoon hit refusal at 85' 2" Recovery = 57 inches Strenath = Stronq Hardness= Mod. Hard Sum of lengths intact = 51" RQD = Sum of L intact / Pen. = 51/60 = 0.85 Recovery = 8 Recov/Pen = 57/60x100% 6 min	_			10:50				
85. CORE RUN#1 Phyllite, gray, fine-grained, thickly-bedded, strong (throughout core) Legend N+ neturally occurring fracture (occurred during coring) Fo- Natural Fracture along Fo- Island Fracture al	=	S-18					4	
86 CORE RUN #1 Phyllite, gray, fine-grained, thickly-bedded, strong (throughout core) Legend N - naturally occurring fracture M - mechanical break/fracture (occurred during coring) Fo - Natural Fracture along Fo liation Note All naturally occurring fractures execute for one labelled Fo, are caused by faulting. Note Recovery % = Recov./Pen = 57/60x100% = 95% Recovery % = Recov./Pen = 57/60x100% = 95%	82	_				·	6	
86 CORE RUN #1 Phyllite, gray, fine-grained, thickly-bedded, strong (throughout core) Legend N - naturally occurring fracture M - mechanical break/fracture (occurred during coring) Fo - Natural Fracture along Foliation Note All naturally occurring fractures except for one labelled Fo, are caused by faulting. Room of Lintact / Pen. = 57/60x100% Spoon hit refusal at 85' 2" Penetration = 60 inches Recovery = 57 inches Strength = Strong Hardness= Mod. Hard Sum of lengths intact = 51" RQD = Sum of L intact / Pen. = 51/60 = 0.85 Recovery % = Recov./Pen = 57/60x100% Fo min	- - - - - -							
CORE RUN #1 Phyllite, gray, fine-grained, thickly-bedded, strong (throughout core) Legend N - naturally occuring fracture (occurred during coring) Fo - Natural Fracture along Foliation Note All naturally occuring fractures except for one labelled Fo, are caused by faulting. Recovery = 57 inches Strength = Strong Hardness= Mod. Hard Spoon hit refusal at 85' 2" Spoon hit refusal at 85' 2" Spoon hit refusal at 85' 2" Recovery = 57 inches Strength = Strong Hardness= Mod. Hard Sum of lengths intact = 51" RQD = Sum of L intact / Pen. = 51/60 = 0.85 Recovery % = Recov./Pen = 57/60x100% = 95% Spoon hit refusal at 85' 2" Recovery = 88 Spoon hit refusal at 85' 2" Recovery % = Recovery	84							
Phyllite, gray, fine-grained, thickly-bedded, strong (throughout core) Legend N - naturally occuring fracture M - mechanical break/fracture (occurred during coring) Fo - Natural Fracture along Foliation Note All naturally occuring fractures except for one labelled Fo, are caused by faulting. Note Fo Note Note Note Note Note Note Note Note	85				Core WC5-1D (Run #1)			Spoon hit refusal
Strength = Strong Legend N - naturally occurring fracture (occurred during coring) Fo - Natural Fracture along Foliation Note All naturally occurring fractures except for one labelled Fo, are caused by faulting. Strength = Strong Hardness = Mod. Hard Hardness = Mod. Hard Sum of lengths intact = 51" Sum of lengths intact = 51" Foliation RQD = Sum of L intact / Pen. Since S	86		Phyllite, gray, fine-grained, thickly-bedded, strong					at 85° 2"
M - mechanical break/fracture (occurred during coring) Fo - Natural Fracture along Foliation Note All naturally occuring fractures , except for one labelled Fo, are caused by faulting. Note Fo Note Note All naturally occuring fractures , except for one labelled Fo, are caused by faulting. Note Note Note Note Note Note Note Not	_		(throughout core) Legend					
Foliation Note All naturally occuring fractures except for one labelled Fo, are caused by faulting. Fo N N N N N N N N N N N N N	=		M - mechanical break/fracture (occurred during coring)		Sum of lengths intact = 51"			
All naturally occurring fractures except for one labelled Fo, are caused by faulting. Recovery % = Recov./Pen = 57/60x100% = 95% 6 min	88		Foliation Note N		= 51/60 = 0.85		min	
	- - -		except for one labelled Fo, are caused by faulting.		= 57/60x100%			
	=						5 min	Penetration to 90' 2"

				E	3OR	RING	LO	G			HOLE No.	WC5-1S	
I. COMPANY N		C Federal Services	s	2.		SUBCONTRACT					SHEET 1 OF 2 SHEETS		
3. PROJECT		ord Army Engine P		medial Investiga		4. LOCA	TION	rd, Connecticut					
5. NAME OF D	RILLER		iani i ven	nediai irivestiga	1110/1	6. MANU	JFACTURE	R'S DESIGNATION				***************************************	٦
7. SIZE AND T	Steve YPES OF		2" OD 9	split spoon		L		5 Truck Mounte LOCATION	a Drill Log				-
AND SAMPL	ING EQU	IPMENT	4 1/4"	D, 5-foot augers	s		9. SURF	About 250' SV ACE ELEVATION	/-W from N corner of	building, B-2 (Area No.	5).		\dashv
							10. DATE	+ 4.89 feet		I11 DAT	E COMPLETE	in.	
								3/22/9		TI. DAT	3/22/99		
12. OVERBURI	DEN THIC > 11.5						15. DEP	TH GROUNDWATER 2 feet below g					
13. DEPTH DR	ILLED IN	TO ROCK					16. DEP	TH TO WATER AND 2.3 ft bgs	ELAPSED TIME AFTER DRI	LLING COMPLETED			
4. TOTAL DEF	PTH OF F						17. OTH		EASUREMENTS (SPECIFY)	****		7
8. GEOTECHI	11.5 fe NICAL SA			DISTURBED		UNDISTUR	BED	19. TOTAL NUMB	ER OF CORE BOXES				\dashv
O SAMPLES	FOR CHE	N/A MICAL ANALYSIS		VOC	l se	MI-VOCs	T	METALS	N/A OTHER (SPECIFY)		21. TOTAL	CORE RECOVERY	_
		N/A									1	N/A	
2. DISPOSITIO	ON OF H	DLE		BACKFILLED	MONIT	ORING WELL	ОТ	HER (SPECIFY)	23. NAME OF INSPECTO		<u> </u>		\dashv
						Χ				Ricardo Colón			l
DEPTH (FEET)	SMPL.	DESCRIPTION	OF MATE	RIAI S		FIELD SCRE		1	GEOTECH SAMPLE OR CORE BOX No.	ANALYTICAL SAMPLE No.	BLOW	REMARKS	\neg
(FEET)	b		C			d d	-	ļ	e e	f f	9	h	
0.5		Asphalt (3")											þ
0.5	1	Med. dense, dk. o m-f SAND, Poorly	gray, mo	oist, gravelly,		PID = 0 r 12:30				ŀ	13	Little Recovery	þ
_	1	FILL LAYE		U SAND (SP)		12.30	,				16	Little Recovery	þ
=	S-1	FILL LAYE	:K								11		þ
	_	W.T.											
2.5		VV.1.									11		
-		Med. dense, wet, Poorly graded SA	brown, I	m-f SAND -		PID = 0 ; 12:35					9	2" Recovery	F
_		GLACIAL I				12.00	,				15		F
-	S-2	OL/ (O)/ (L	DE1 001								15		F
4	1												F
4.5											17		F
_	1	Med. dense, wet, Poorly graded SA	brown, i	m-f SAND -		PID = 0 p 12:40					9	10" Recovery	F
=]	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									11		F
_	S-3										13		F
6	}												E
6.5	<u> </u>	_									17		E
]	1	Becoming coarse noted	r; tr. f. g	ravel to c. sand		PID = 0 p 13:05					6	Recovery information is	F
_	4										10	Not Available	
	S-4										10		F
8													E
8.5	<u> </u>			(0.41)=		DIE 6					12	Pocovony	
_		Med. dense, wet, trace f. gravel - Po				PID = 0 p 13:10					10	Recovery information is	
_	S-5	(SP)									12	Not Available	
40 -		GLACIAL I	DEPÓSI	118							12		þ
10 Modified MRK Fo	orm 55			PROJECT							HOLE N		+
	ral Service	es	i	Ctrofford	Army Er	agina Plant	D = = -1	al Investigatio	_		1	WC5-1S	- 1

	HOLE No. WC5-1S						
OJECT		INSF	DRILLING LO	***************************************		SHEET	2
ratford Army	Engine Pla	ant Remedial Investigation Rical	rdo Colón FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	OF BLOW	2 SHEETS
DEPTH a	INT.	DESCRIPTION OF MATERIALS	RESULTS d	OR CORE BOX No.	SAMPLE No.	COUNTS	REMARKS h
10.5	S-5					15	
-							
11.5		END OF BORING					
.12]	LIND OF BOILING					
-	1						
-	1						
-							
14	=						
-	1						
15							
-	1						
16	1						
-	}						
17	†						
-]						
18	1						
-							
-							
-	1						
20	-						
-	1						
-]						
-	1						
22]						
-	1						
-	1						
-							
_24							
-							
25							
]						
26	4						
dified MRK F	orm 55	PROJECT es Stratford A	rmy Engine Plant Remedial Inv			HOLE No.	WC5-1S

				BOF	RING	G L	OG	ì				HOLE No.	WC5-2I
1. COMPANY		25 1 10 1			2. DRILLIN							SHEET	1
3. PROJECT	RSGW	C Federal Service	S		Conn	ecticut 7	est Bo 4. LOCA					OF	1 SHEET
		ord Army Engine F	lant Re	medial Invest	igation				d, Connecticut				
5. NAME OF D	RILLER Steve	Butrei				ľ	b. MANU		R'S DESIGNATION truck-mounted				
7. SIZE AND T	YPES OF	DRILLING		split spoon					LOCATION	×			· · · · · · · · · · · · · · · · · · ·
AND SAMPL	LING EQU	JIPMENT	4 1/4"	ID, 5-foot aug	ers			a SLIDE	Near SE corne	r of B-2	(in northern secti	on of Area	a No. 3).
			-					J. GUINI	+ 7.70 feet				
								10. DATE	STARTED	`	11. DATE	E COMPLETE 4/16/99	ED
12. OVERBUR	DEN THI	CKNESS	<u> </u>					15. DEPT	4/16/99 H GROUNDWATER		TERED	4/10/99	William Committee Committe
	> 40 fe							10. DED	5 feet	10 AFTED	WELL DEVELOPMEN		
13. DEPTH DR	O O	TO ROCK						16. DEPI	5 ft bgs	(S. AFTER	WELL DEVELOPMEN	41	
14. TOTAL DE								17. OTHE	R WATER LEVEL M	EASUREN	MENTS (SPECIFY)		
18. GEOTECH	40 fee			DISTURBED		UN	IDISTUR	BED	19. TOTAL NUMBE	R OF COF	RE BOXES		
		N/A								N/A		,	
20. SAMPLES	FOR CHE	EMICAL ANALYSIS		VOC	-	SEMI-VOC	Cs	ļ	METALS	OTHER ((SPECIFY)	21. TOTAL	CORE RECOVERY
		N/A	,										N/A
22. DISPOSITI	ON OF H	OLE		BACKFILLED	1OM	ITORING	WELL	OTH	HER (SPECIFY)	23. NAM	E OF INSPECTOR Ricardo Colón		
						X]					•
DEPTH (FEET)	SMPL. INT.	DESCRIPTION	OF MATE	RIAIS		1	D SCREE		GEOTECH SA OR CORE BC		ANALYTICAL SAMPLE No.	BLOW	REMARKS
a.	b b		C	12.0			d	_	e e		f f	9	h
50		END OF BORING								٠			Driller augered 55 ft. bgs. Split-spoons were not used while advancing the borehole. For a characterization of the soil. please refer to WC5-1D.
56	orm 55			I PROJEC	T							HOLEN	
URSGWC Fede				Stratfor	d Army	Engine	Plant I	Remedi	al Investigation	ı		HOLEN	WC5-2I
Log prepared		7/25/02		Project No		ყ	. 14111	·······		•			

1. COMPANY NAME URSGWC Federal Services URSGWC Federal Services URSGWC Federal Services 2. DRILLING SUBCONTRACTOR Connecticut Test Borings 4. LOCATION Stratford Army Engine Plant Remedial Investigation Stratford, Connecticut 5. NAME OF DRILLER Steve Butrej 7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT AND SAMPLING EQUIPMENT 4. LOCATION Stratford, Connecticut 6. MANUFACTURER'S DESIGNATION OF DRILL CME 75 Truck Mounted Drill Rig CME 75 Truck Mounted Drill Rig 8. HOLE LOCATION SW section Area No. 5, 100' NE of the int. of Access Rd. & Main St. 9. SURFACE ELEVATION + 8.53 feet 10. DATE STARTED 3/23/99 12. OVERBURDEN THICKNESS > 12 feet 15. DEPTH GROUNDWATER ENCOUNTERED 5 feet below ground surface 16. DEPTH OWATER AND ELAPSED TIME AFTER DRILLING COMPLETED 5. 9ft bgs 14. TOTAL DEPTH OF HOLE	-
3. PROJECT Stratford Army Engine Plant Remedial Investigation 5. NAME OF DRILLER Steve Butrej 6. MANUFACTURER'S DESIGNATION OF DRILL CME 75 Truck Mounted Drill Rig 7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 4 1/4" ID, 5-foot augers SW section Area No. 5, 100' NE of the int. of Access Rd. & Main St. 9. SURFACE ELEVATION + 8.53 feet 10. DATE STARTED 3/23/99 12. OVERBURDEN THICKNESS > 12 feet 15. DEPTH GROUNDWATER ENCOUNTERED 5 feet below ground surface 16. DEPTH DRILLED INTO ROCK 0 5. 9 ft bgs	
6. MANUFACTURER'S DESIGNATION OF DRILL Steve Butrej CME 75 Truck Mounted Drill Rig 7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 4 1/4" ID, 5-foot augers SW section Area No. 5, 100' NE of the int. of Access Rd. & Main St. 9. SURFACE ELEVATION	
7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 4 1/4" ID, 5-foot augers 5 SW section Area No. 5, 100' NE of the int. of Access Rd. & Main St. 9. SURFACE ELEVATION + 8.53 feet 10. DATE STARTED 3/23/99 12. OVERBURDEN THICKNESS > 12 feet 15. DEPTH GROUNDWATER ENCOUNTERED 5 feet below ground surface 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED 5.9 ft bgs	
AND SAMPLING EQUIPMENT 4 1/4" ID, 5-foot augers 9. SURFACE ELEVATION + 8.53 feet 10. DATE STARTED 3/23/99 12. OVERBURDEN THICKNESS > 12 feet 13. DEPTH DRILLED INTO ROCK 0 16. DEPTH OF WATER AND ELAPSED TIME AFTER DRILLING COMPLETED 5. 9 ft bgs	
+ 8.53 feet	
3/23/99 3/23/99	
12. OVERBURDEN THICKNESS > 12 feet 5 feet below ground surface 13. DEPTH DRILLED INTO ROCK 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED 5.9 ft bgs	
13. DEPTH DRILLED INTO ROCK 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED 5.9 ft bgs	
0 5.9 ft bgs	
12 feet	
18. GEOTECHNICAL SAMPLES DISTURBED UNDISTURBED 19. TOTAL NUMBER OF CORE BOXES N/A N/A	
20. SAMPLES FOR CHEMICAL ANALYSIS VOC SEMI-VOCS METALS OTHER (SPECIFY) 21. TOTAL CORE RECOVERY	
N/A N/A	
22. DISPOSITION OF HOLE BACKFILLED MONITORING WELL OTHER (SPECIFY) 23. NAME OF INSPECTOR	
X Ricardo Colón	
DEPTH SMPL. FIELD SCREENING GEOTECH SAMPLE ANALYTICAL BLOW (FEET) INT. DESCRIPTION OF MATERIALS RESULTS OR CORE BOX No. SAMPLE No. COUNTS REMARKS	
(FEET) INT. DESCRIPTION OF MATERIALS RESULTS OR CORE BOX No. SAMPLE No. COUNTS REMARKS a b c d e f g h	
0.5	
-Sandy lean CLAY (CL) 13:40 24" Recovery	
FILL LAYER 3	
2.5]	
PID = 0 ppm 13:45	
4.5	
Loose, brown, m-f SAND - Poorly graded PID = 0 ppm SAND (SP) 13:55	
6.5	
Becoming coarser; some f. gravel to c. PID = 0 ppm 14:00 NA 24" Recovery	
NA - blow counts are not available	
are not available	
8 <u>-</u> NA	
_ NA	
8.5 Becoming coarser; some f. gravel to c. sand PID = 0 ppm NA 24" Recovery	
NA - blow counts	
FILL LAYER NA IN COUNTY	
10 - NA	
Modified MRK Form 55 PROJECT HOLE No.	
URSGWC Federal Services Stratford Army Engine Plant Remedial Investigation WC5-2S Log prepared 7/25/02 Project No. R98104 WC5-2S	

		НТ	W DRIL	LING LOG			HOLE No. WC5-2S			
ROJECT	***************************************		INSPECT	OR			SHEET	2		
ratford Army E		ant Remedial Investigation	Ricardo C		CECTECH CAMPLE	T ANIAL VEICAL		2 SHEETS		
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATERIA	LS	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS g	REMARKS h		
10.5	S-5						NA			
_										
12		END OF BORING								
1.1.1										
-										
14										
15										
16										
16 – –										
17										
-										
18										
_										
20 -										
-										
.22 -										
24							*			
25										
,										
26 dified MRK F	orm 55	res	PROJECT	Engine Plant Remedi	<u> </u>	<u> </u>	HOLE No	WC5-2S		

7/25/02

Stratford Army Engine Plant Remedial Investigation
Project No. R98104

Steve Butrej CME 75 transparence CME 7		HOLE No.	WC5-3S
3. PROJECT Stratford Army Engine Plant Remedial Investigation 4. LOCATION Stratford 5. NAME OF DRILLER Steve Butrej CME 751 CME 75		SHEET OF	1 1 SHEET
5. NAME OF DRILLER Steve Butrej CME 75 t	Connecticut		
2" OD split spoon	S DESIGNATION OF DRILL		
AND SAMPLING EQUIPMENT 4 1/4" ID, 5-foot augers 9 SURFAC 10. DATE S 12. OVERBURDEN THICKNESS > 12 feet 13. DEPTH DRILLED INTO ROCK 0 14. TOTAL DEPTH OF HOLE 12 feet 18. GEOTECHNICAL SAMPLES N/A 20. SAMPLES FOR CHEMICAL ANALYSIS N/A 22. DISPOSITION OF HOLE DEPTH (FEET) INT. (FEET) INT. a DESCRIPTION OF MATERIALS RESULTS d A 14/4" ID, 5-foot augers 9 SURFAC 9 SURFAC 10. DEPTH 5 DEPTH 17. OTHER 17. OTHER 17. OTHER 17. OTHER 18. GEOTECHNICAL ANALYSIS N/A 20. SAMPLES FOR CHEMICAL ANALYSIS N/A 21. DEPTH SMPL (FEET) INT. a DEPTH SMPL (FEET) INT. b DESCRIPTION OF MATERIALS RESULTS d A 14/4" ID, 5-foot augers 9 SURFAC 10. DEPTH 5 DEPTH M. DEPTH M. DEPTH MONITORING WELL OTHER A 2 DEPTH RESULTS d A 3 DEPTH RESULTS d	ruck-mounted drill rig		
12. OVERBURDEN THICKNESS 15. DEPTH 15. DEPTH 15. DEPTH 16. DEPTH 0 17. OTHER 17. OTHER 17. OTHER 17. OTHER 18. GEOTECHNICAL ANALYSIS VOC SEMI-VOCS M. M. M. M. M. M. M. M	lear SE corner of B-2 (in northe	ern section of Are	a No. 3).
12. OVERBURDEN THICKNESS 15. DEPTH 5 5 5 12 feet 5 5 5 5 12 feet 5 5 5 5 13. DEPTH DRILLED INTO ROCK 16. DEPTH 0 5 5 14. TOTAL DEPTH OF HOLE 12 feet 17. OTHER 18. GEOTECHNICAL SAMPLES N/A DISTURBED UNDISTURBED 11 18. DEPTH N/A 19. DEPTH SMPL OTHE DEPTH SMPL OTHE SMPL OTHE SMPL OTHE OT	· 7.72 feet		
12 feet	TARTED 4/15/99	11. DATE COMPLET 4/16/99	l l
13. DEPTH DRILLED INTO ROCK	GROUNDWATER ENCOUNTERED	1 4/10/03	
0 14. TOTAL DEPTH OF HOLE 12 feet 18. GEOTECHNICAL SAMPLES N/A 20. SAMPLES FOR CHEMICAL ANALYSIS N/A 22. DISPOSITION OF HOLE DEPTH (FEET) INT. DESCRIPTION OF MATERIALS C BACKFILLED MONITORING WELL OTHE X FIELD SCREENING RESULTS d W.T. 8	5.5 feet TO WATER 24 HRS. AFTER WELL DEV	VELOPMENT	
12 feet 18. GEOTECHNICAL SAMPLES N/A 20. SAMPLES FOR CHEMICAL ANALYSIS VOC SEMI-VOCS N N/A 22. DISPOSITION OF HOLE DEPTH (FEET) INT. DESCRIPTION OF MATERIALS C W.T	.2 ft bgs WATER LEVEL MEASUREMENTS (SPI		
N/A 20. SAMPLES FOR CHEMICAL ANALYSIS N/A 22. DISPOSITION OF HOLE BACKFILLED MONITORING WELL OTHE X DEPTH SMPL. (FEET) INT. DESCRIPTION OF MATERIALS C W.T		=01F1)	
20. SAMPLES FOR CHEMICAL ANALYSIS N/A 22. DISPOSITION OF HOLE BACKFILLED MONITORING WELL OTHE X DEPTH SMPL. (FEET) INT. DESCRIPTION OF MATERIALS RESULTS d W.T	9. TOTAL NUMBER OF CORE BOXES N/A		
22. DISPOSITION OF HOLE BACKFILLED MONITORING WELL X DEPTH SMPL. INT. DESCRIPTION OF MATERIALS RESULTS d W.T	METALS OTHER (SPECIFY)	21. TOTAL	L CORE RECOVERY
DEPTH SMPL INT. DESCRIPTION OF MATERIALS RESULTS d W.T			N/A
DEPTH SMPL. (FEET) INT. DESCRIPTION OF MATERIALS RESULTS d W.T. 6	R (SPECIFY) 23. NAME OF INSP		
(FEET) INT. DESCRIPTION OF MATERIALS RESULTS d W.T		o Colón	
W.T		YTICAL BLOW PLE No. COUNTS	REMARKS
8 - 	e SAMI	f g	h Driller augered down
END OF BORING 14 Modified MRK Form 55 PROJECT		HOLE	directly to 12 ft. The split spoons were not used during the advancing of the hole. For a characterization of the soil, please refer to WC5-1D.

					BOR	ING	L(OG					HOLE No.	WC6-1I
1. COMPAN			C Federal Services	2				NTRACTO est Bori					SHEET	1 4 SHEETS
3. PROJEC	Т							LOCATI	ON	d Cannastiaut			<u> </u>	
5. NAME OF			ord Army Engine P	lant Kei	mediai investiga	ition	6			d, Connecticut R'S DESIGNATION	OF DRILL		 	NATE OF THE PARTY
7. SIZE ANI			Butrej	2" 00 4	split spoon					Truck Mounte	d Drill Ri	g	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
AND SAN					D, 5-foot augers	5				In South Parkir	ng Lot (A	rea No. 6), west	of the trea	atment plant.
								9.		+ 6.09 feet				
								11	0. DATE	STARTED 3/24/9	۵	11. DATE	3/25/99	ĒD
12. OVERB				l				1		H GROUNDWATER		TERED	0/20/00	
13. DEPTH		< 50 fe						11		4 feet bgs H TO WATER AND	ELAPSED	TIME AFTER DRILLIN	IG COMPLE	TED
14. TOTAL I		O TH OF F	iOI E					1		4.2 ft bgs	MEASUREN	MENTS (SPECIFY)		
		50 fee	t		•									
18. GEOTE	CHN	ICAL SA	AMPLES		DISTURBED		UNI	DISTURBE	ĒD	19. TOTAL NUMBE	R OF COF	RE BOXES		
20. SAMPLE	ES F	OR CHE	EMICAL ANALYSIS		VOC	SI	EMI-VOC	s		METALS	OTHER	(SPECIFY)	21. TOTAL	CORE RECOVERY
			N/A							Water the second second second second second second second second second second second second second second se		***************************************		N/A
22. DISPOS	OITI	N OF H	OLE		BACKFILLED	MONIT	TORING V	WELL	OTH	HER (SPECIFY)	23. NAN	E OF INSPECTOR Ricardo Colón		
DEPTH		SMPL.			<u></u>	L	X	D SCREEN	IING	GEOTECH SA	MPIE	ANALYTICAL	BLOW	1
(FEET)		INT.	DESCRIPTION		RIALS			RESULTS		OR CORE BO		SAMPLE No.	COUNTS	REMARKS
а	\pm	b	Asphalt (3")	С				d		е		f	g	h
0.5	\exists													
	\exists		Med. dense, mois SAND, trace c. S				PIE	O = 0 pp 8:50	m				13	20" Recovery
	\exists	_	FILL LAYE	:R									9	
	\exists	S-1											11	
2	\exists													
2.5	1												11	
	\exists		Loose, wet, olive- some f. gravel - V	-gray, c- Vell Gra	f SAND, ided SAND		PIE	O = 0 pp 8:55	m				10	12" Recovery
	\exists	Ņ	(SW)										7	
	\exists	Ŝ											8	
4	士	-	W.T.										_	
4.5	1												7	
	\exists		Loose, wet, olive- f gravel - Well gra			İ.	PIL	D = 0 pp 9:10	m				10	4" Recovery
	\exists	6											7	
	\exists	S-3											8	
6	亅													
6.5	+				- CAND		-	D = 0					7	10" Door
	1		Loose, wet, olive- f gravel - Poorly o			,	PIC	O = 0 pp 9:15	ın				2	12" Recovery
	1	4											3	
	\exists	S-4											3	
8	ㅓ													
8.5	+												5	Oll December
	1		Loose, wet, greer some gravel - Po				PIE	0 = 0 pp 9:25	m				2	6" Recovery
	1	S-5											4	
	1												5	
Modified MR					PROJECT					L		<u> </u>	HOLE N	
URSGWC Fo		al Servic	res 7/25/02		Stratford . Project No. R		ingine I	Plant Re	emedia	al Investigation	ו			WC6-11

		HTW DRIL	LING LOG			HOLE No.	WC6-1I
OJECT		INSPEC	TOR	VIII. (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		SHEET	2
atford Army E	Engine Pl SMPL.	ant Remedial Investigation Ricardo	FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	OF BLOW	4 SHEETS
DEPTH	INT.	DESCRIPTION OF MATERIALS	RESULTS d	OR CORE BOX No.	SAMPLE No.	COUNTS	REMARKS h
a	rò p	С	d	e		g	
10.5	တ်					5	
=							
_							
٦							
12							
-							
=							
7							
14							
7							
15							
·		Loose, wet, grayish brown, c-f SAND, some f. gravel - Well graded SAND	PID = 0 ppm 9:45			2	8" Recovery
=		(SW)	9.45			ļ	
16	9-S					5	
-	ώ					6	
7						6	
17							
_						İ	
-							
18							
7							
╛							
-							
20							
		Loose, wet, gravish brown, c-f SAND, some f. gravel - Well graded SAND	PID = 0 ppm 9:50			3	16" Recovery
		(SW)	9.50			 	
	S-7					6	
7	Ó					8	
7						11	
22						<u> </u>	
=						ł	
7							
7						İ	
,							
24							
7							
25							
~ ±		Med. dense, moist, yellowish-brown, m-f	PID = 0 ppm				22" Recovery
\exists	S-8	SAND, some gravel- Poorly graded SAND (SP)	9:55			6	
26		FILL LAYER				14	
	orm 55	PROJECT				HOLE N	0

		HTW DRIL	LING LOG			HOLE No.	WC6-1I	
DJECT	Engine D	INSPECT	OR			SHEET	3 4 SHEETS	
	SMPL.		FIELD SCREENING	GEOTECH SAMPLE	ANALYTICAL	BLOW		
DEPTH a	INT. b	DESCRIPTION OF MATERIALS c	RESULTS d	OR CORE BOX No. e	SAMPLE No. f	COUNTS	REMARKS h	
_						14		
_	S-8					17		
27		1						
_								
28 _								
-								
_								
-								
30 _		Mod dance moist Varied Investigation	PID = 0 ppm			-	22" Recovery	
_		Med. dense, moist, Varved layers of Brown f. SAND (6")(SP); Silty f. GRAVEL	10:05			13	ZZ Necovery	
_		(8") (GP); and Red, clayey GRAVEL (8") (GP)				19		
-	6-S	GLACIAL DEPOSITS				27		
_						24		
32		-					<u> </u>	
-								
-	1							
_								
34								
			-					
35								
_		Loose, gravelly, reddish f. SAND, some clay - Clayey SAND with gravel (SC)	PID = 0 ppm 10:30			4	24" Recovery	
_						10		
36	S-10	Med dense, moist, olive-gray, m-f SAND,						
_		trace c. sand - Poorly graded SAND (SP)				22		
37						22		
_								
38								
				-				
_								
40								
40		Med. dense, moist, olive-gray, m-f SAND,	PID = 0 ppm			7	6" Recovery	
_		trace f. gravel to c. sand - Poorly Graded SAND (SP)				11		
_	S-11							
-	S					11		
42						13		
42 dified MRK F	orm 55	PROJECT	<u> </u>		<u> </u>	HOLE	lo.	

		H'	TW DRILI	LING LOG			HOLE No.	WC6-1I
ROJECT			INSPECTO	R			SHEET	4
ratford Army E		ant Remedial Investigation	Ricardo Co			T	OF	4 SHEETS
DEPTH a	SMPL. INT. b	DESCRIPTION OF MATER	RIALS	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX No. e	ANALYTICAL SAMPLE No. f	BLOW COUNTS 9	REMARKS h
_								
7								
44								
45			***************************************	PID = 0 ppm				No Recovery
-				FID = 0 ppill			7	Piece of gravel found
46	2						4	inside the spoon
	S-12						7	
							7	
47		,						
=								
48								No Recovery
_							3	Spoon seems to be
3	S-13	GLACIAL DEPOSI	TS				5	pushing gravel
	က်						6	
							8	
50		END OF BORING				<u> </u>		
-								
=								
52								
=								
_								
_								
54								
=								
55								
3								
=								
56								
=								
57								
=								
58								
dified MRK F	form 55 ral Servic		PROJECT	Engine Plant Remedia		***************************************	HOLE N	o. WC6-1I

7/25/02

Stratford Army Engine Plant Remedial Investigation Project No. R98104